

MINI HiFi COMPONENT SYSTEM

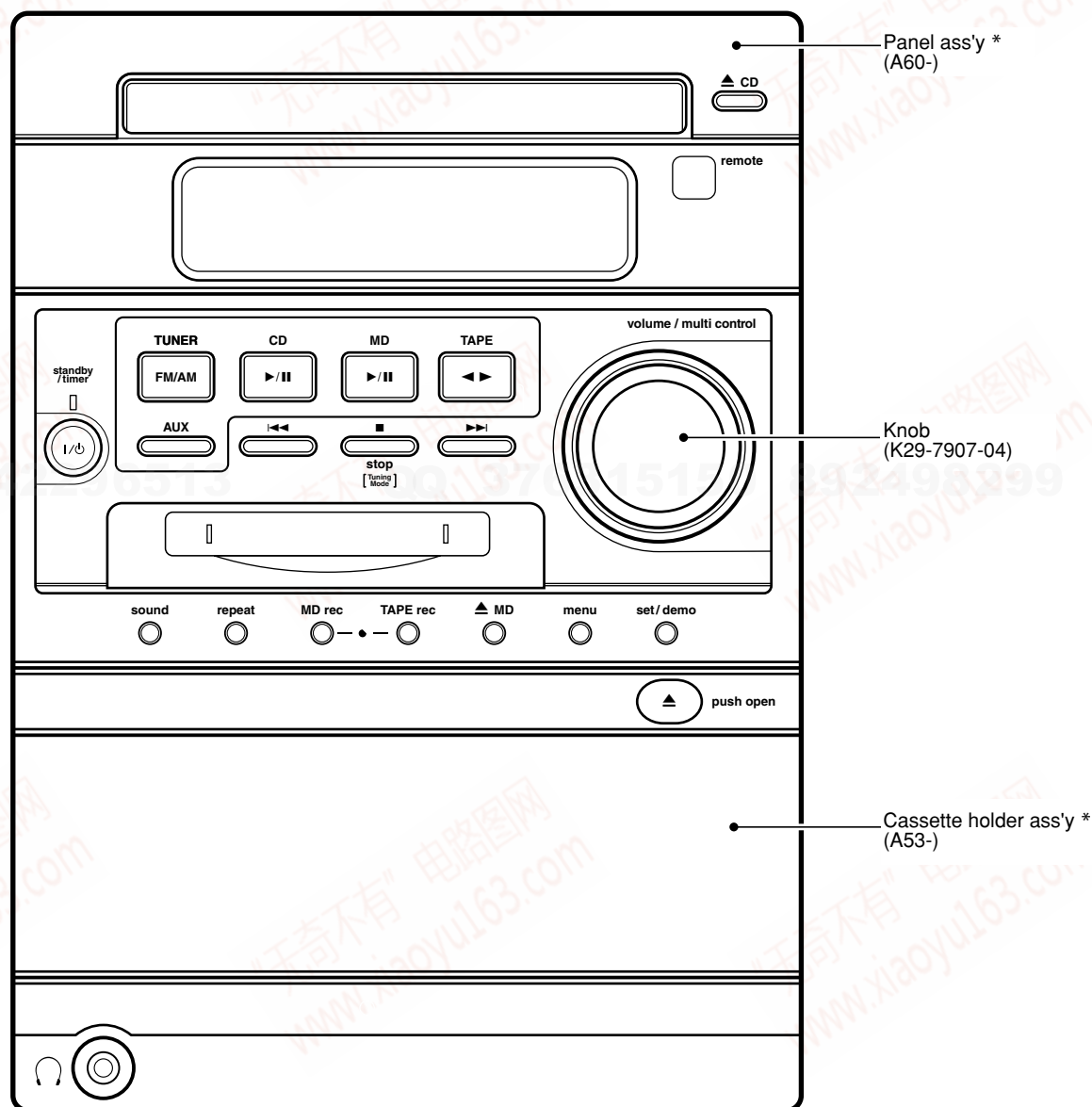
RXD-M33/M33MD

SERVICE MANUAL

(HM-333/HM-383MD)**

KENWOOD

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**Refer to page 2 if you want to know system configuration.

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

* Refer to parts list on page 36.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.



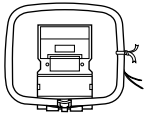
RXD-M33/M33MD


CONTENTS / ACCESSORIES / CAUTIONS

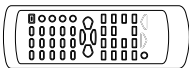
Contents

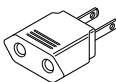
CONTENTS / ACCESSORIES / CAUTIONS	2	WIRING DIAGRAM	15
EXTERNAL VIEW	3	PC BOARD	16
DISASSEMBLY FOR REPAIR	3	SCHEMATIC DIAGRAM	20
BLOCK DIAGRAM	4	EXPLODED VIEW	36
CIRCUIT DESCRIPTION	5	PARTS LIST	39
ADJUSTMENT	13	SPECIFICATIONS	Back cover

Accessories

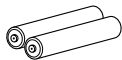
AM loop antenna (1)
(T90-0852-05)


FM indoor antenna (1)
(T90-0877-05)


Remote control unit (1)


AC plug adaptor (1)
(E03-0115-05)


Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

Batteries (R6/AA) (2)


Remocon & System Configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	SP CORD-PARTS No	COLOR
HM-383MD-S	RXD-M33MD-S	MIXTE	LS-M33-S	E30-5917-08	SILVER
HM-383MD-LM	RXD-M33MD-L	MTH	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-383MD-N	RXD-M33MD-N	MTV2	LS-M33-N	E30-5917-08	GOLD
HM-333-S	RXD-M33-S	T1H1E1	LS-M33-S	E30-5917-08	SILVER
HM-333-L	RXD-M33-L	T1E1	LS-M33-L	E30-5917-08	BLUE(SILVER CABI)
HM-333-N	RXD-M33-N	T1E1	LS-M33-N	E30-5917-08	GOLD
HM-333-LM	RXD-M33-L	H1	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-333-S	RXD-M33E-S	E2	LS-M33-S	E30-5917-08	SILVER
HM-333E-L	RXD-M33E-L	E2	LS-M33-L	E30-5917-08	BLUE(SILVER CABI)
HM-333E-N	RXD-M33E-N	E2	LS-M33-N	E30-5917-08	GOLD
HM-333-S	RXD-M33-S	KPM111X1	LS-M33-S	E30-5917-08	SILVER
HM-333-L	RXD-M33-L	KPV1	LS-M33-L	E30-5917-08	BLUE(SILVER CABI)
HM-333-LM	RXD-M33-L	M111X1	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-333-N	RXD-M33-N	M1	LS-M33-N	E30-5917-08	GOLD
HM-333-LM(M2)	RXD-M33-L	M2	LS-M33-LM	E30-5917-08	BLUE(GRAIN CABI)
HM-333-N(M2)	RXD-M33-N	M2	LS-M33-N	E30-5917-08	GOLD

		Remote controller		
MODEL	Destinations	Parts number	Model name	Battery cover
RXD-M33MD	THE	A70-1491-05	RC-M0303E	A09-1151-08
RXD-M33MD	MIXV2	A70-1492-05	RC-M0303	A09-1151-08
RXD-M33	KPM111X1V1M2	A70-1493-05	RC-F0303	A09-1151-08
RXD-M33	T1E1H1E2	A70-1494-05	RC-F0303E	A09-1151-08

Cautions

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the Power I/⏻ key depressed, plug the power cord again.



or

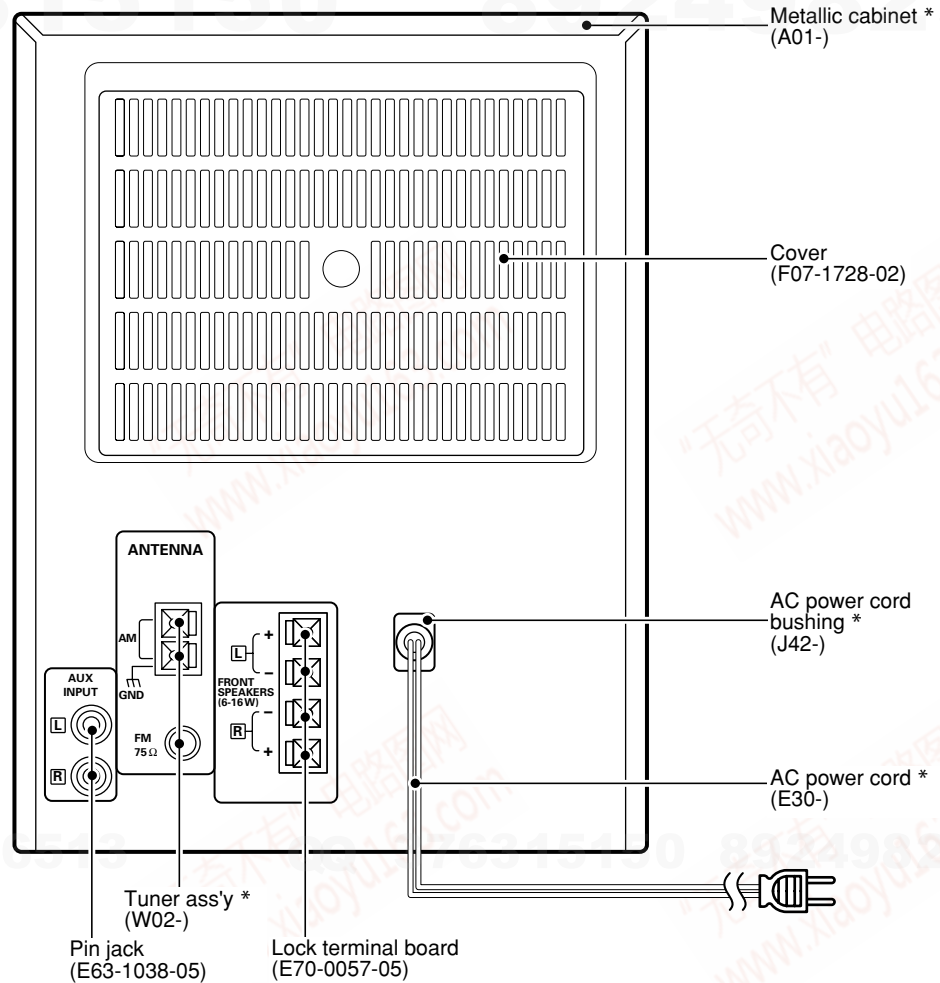


Power



RXD-M33/M33MD

EXTERNAL VIEW

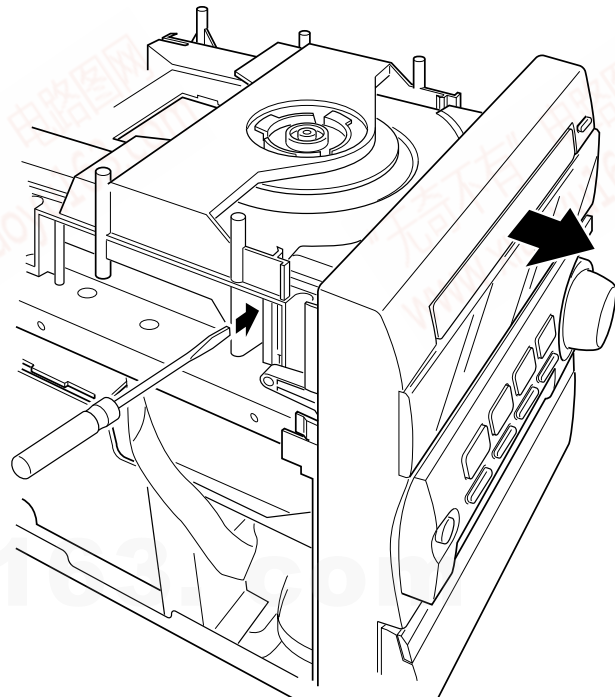


* Refer to parts list on page 36.

DISASSEMBLY FOR REPAIR

How to open the CD tray when it does not come out.

1. Insert a flat driver and so on to a square hole in the mechanism as shown in the figure.
2. Push a rack gear in the direction of arrow.
(At this time, the tray comes out slightly frontward).
3. The tray can be opened with hand.



RXD-M33/M33MD

CIRCUIT DESCRIPTION

1. Initializing

1-1 Initialization Method

- While pressing the [POWER] key, turn the AC on.

1-2 Initialization Operation

- During the initial operation, the display shows "INITIALIZE" and after that it will be returned to standby condition.
- If any mechanisms error occurred, the error indication is displayed as "ERR" on the display.

1-3 Mechanism Initializations

- ① CD Mechanism
 - If a mechanism error occurred, the error indication is displayed as "C ERR" on the display.
- ② Deck Mechanism
 - If a mechanism error occurred, the error indication is displayed as "X ERR" on the display.
- ③ MD Mechanism
 - If a mechanism error occurred, the error indication is displayed as "M ERR" on the display.
 - The disc will be unloaded from MD mechanism automatically, if a disc is its in.

2. Tuner Destination

Set	Destination	Band	Receiving Frequency Range	Channel Space	IF	RF
K,P	K1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
E,T,H E2	E3 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
M,Y,X	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
M,Y	K2	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1610kHz	10kHz	+450kHz	10kHz

3. Tuner Preset Frequency

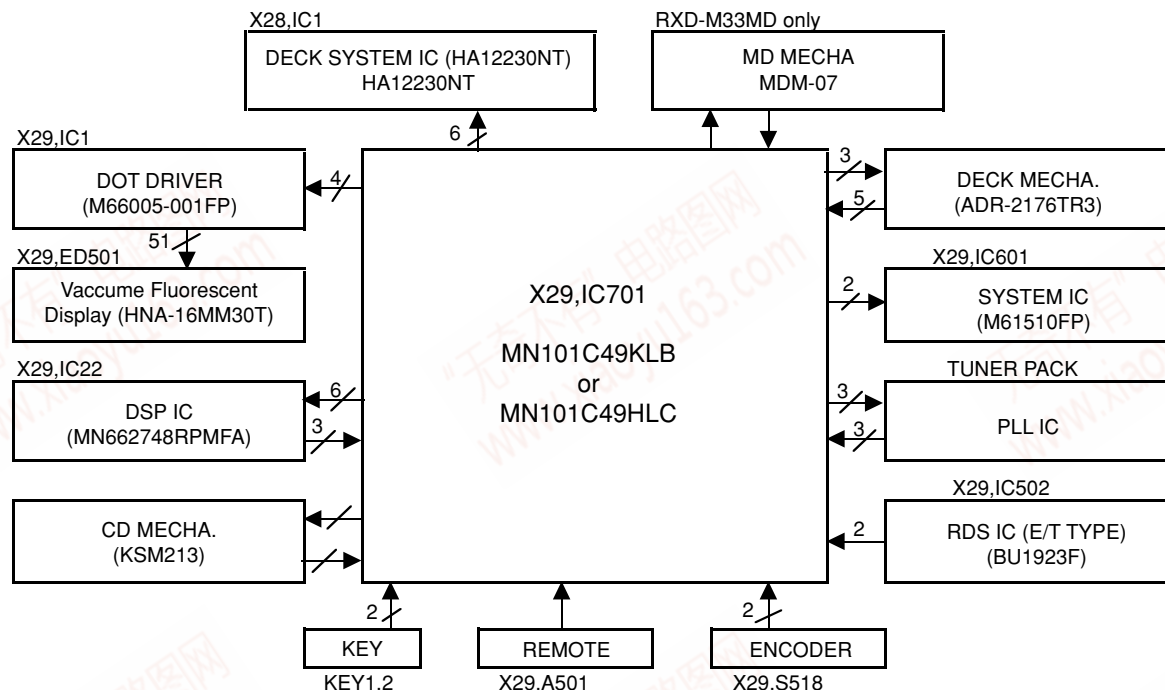
P.CH	Frequency			P.CH	Frequency		
	K1(K,P TYPE)	K2(M,Y TYPE)	E1/E3 (E,E2,T,H,M,Y,X)		K1(K,P TYPE)	K2(M,Y TYPE)	E1/E3 (E,E2,T,H,M,Y,X)
1	FM 98.30MHz	FM 98.30MHz	FM 98.30MHz	16	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
2	FM 87.50MHz	FM 87.50MHz	FM 98.00MHz	17	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
3	FM 89.10MHz	FM 89.10MHz	FM 87.50MHz	18	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
4	FM 108.0MHz	FM 108.0MHz	FM 89.10MHz	19	AM 990kHz	AM 990kHz	AM 990kHz
5	FM 90.00MHz	FM 90.00MHz	FM 108.0MHz	20	FM 97.40MHz	FM 97.40MHz	FM 97.70MHz
6	FM 87.50MHz	FM 87.50MHz	FM 90.00MHz	21	AM 530kHz	AM 530kHz	AM 531kHz
7	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz	22	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
8	AM 1610kHz	FM 87.50MHz	FM 87.50MHz	23	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
9	AM 1700kHz	AM 1610kHz	AM 1602kHz	24	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
10	AM 1000kHz	AM 1000kHz	AM 999kHz	25	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
11	AM 630kHz	AM 630kHz	AM 630kHz	26	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12	AM 1440kHz	AM 1440kHz	AM 1440kHz	27	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13	FM 106.0MHz	FM 106.0MHz	FM 106.0MHz	28	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14	AM 530kHz	AM 530kHz	AM 531kHz	29	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz	30	FM 106.0MHz	FM 106.0MHz	FM 106.0MHz

RXD-M33/M33MD

CIRCUIT DESCRIPTION

4. Microprocessor : MN101C49KLB or MN101C49HLC(X29,IC701)

4-1 Microprocessor Peripheral Block Diagram



4-2 Port Description of Microprocessor

Port No.	Port Name	I/O	Description	ACTIVE	
				H	L
1	GND	-	Connected to ground.		
2	PH	I	Deck reel sensor input.		
3	TN TYPE	I	Discrimination of tuner destination.		
4	S LEVEL	I	RDS signal level input. (RDS version only)		
5	CD PROTECT	I	Detection port for CD protection.		
*6	MD BACKV	I	Detection port for MD back up voltage.		
7,8	KEY2,KEY1	I	A/D key (1,2) input.		
9	NO USE	-	Unused.		
10	VREF	-	A/D reference voltage input for the A/D converter.		
11	VDD	I	Power supply input (+5V).		
12	OSC2	O	Main clock output (8.38MHz).		
13	OSC1	I	Main clock input (8.38MHz).		
14	GND	-	Connected to ground.		
15	XI	I	Timer clock input (32kHz).		
16	XO	O	Timer clock output (32kHz).		
17	GND	-	Connected to ground.		
*18	MD TXD	O	MD communication TX .(to mecha. u-com RX)		
*19	MD RXD	I	MD communication RX .(to mecha. u-com TX)		
20	NC	-	Unused.		
21	FL SDATA	O	Data output to FL dot driver.		
22	NC	-	Unused.		
23	FL SCLK	O	Clock output to FL dot driver.		
24	FL RESET	O	Reset output to FL dot driver.		RESET
25	FL CE	O	CE output to FL dot driver.		
26	REM	I	Remote control signal input.		
27	MODEL TYPE	I	Discrimination port for model type.		FIXED
28	CD BLKCK	I	Sub code synchronous signal input. L→H : Interrupt		
29	RDSCLK	I	RDS clock input. (E/T version only)		
30,31	ENC A,B	I	Volume encoder (A/B) input.		
32	VDD2	I	Power supply input (+5V) for flash ROM writing.		
33	RESET	I	Reset signal input for microcomputer.		RESET
34	CE	I	Back up detection input.	AC On	AC Off
35	CL SW	I	Input port of close switch for CD tray.		

RXD-M33/M33MD

CIRCUIT DESCRIPTION

4-2 Port Description of Microprocessor

Port No.	Port Name	I/O	Description	ACTIVE	
				H	L
36	SLT SW	I	CD start limit switch input.		
37	XRST	O	CD DSP reset output.		RESET
38	OP SW	I	Input port of open switch for CD tray.		
39,40	NC	-	Unused.		
41	VPP	I	Microcomputer power supply (+5v).		
42	MDATA	O	CD DSP command data output.		
43	STAT	I	CD DSP status signal input.		
44	MCLK	O	CD DSP command clock signal output.		
45	MLD	O	CD DSP command load signal output.		
46	SUBQ	I	CD sub code input.		
47	SQCK	O	Clock output for CD sub code.		
48	EEP SDA	-	Unused.		
49	EEP SCL	-	Unused.		
50	HP IN	I	Detection port for headphones jack.		
51	OPEN	O	Control port of CD tray motor.		
52	CLOSE	O	Control port of CD tray motor.		
*53	MD CE	I	Detection port for MD back up.		
*54	MD RST	I	Reset output from MD mechanism.		
55	INI MD SW	-	Unused.		
56	BACK CHK	-	Unused.		
57	BACK ON	-	Unused.		
*58	MD IN SW	I	Load switch input for MD disc.		
59	NC	-	Unused.		
60	PLAY SW	I	Detection switch input of head position for deck.		
61	CrO2 SW	I	Detection switch input of CrO2 tape for deck.		
62	HALF SW	I	Cassette half switch input.		
63	REC F SW	I	Deck forward recording switch input.	OFF	ON
64	CPM	O	Control port of capstan motor for deck.		
65	REC R SW	I	Deck reverse recording switch input.	OFF	ON
66	SOL	O	Control port of solenoid for deck.		
67	LMUTE	O	Deck lien mute control.	ON	
68	A/B-1	O	Deck recording mute & head select control 1.		
69	A/B-2	O	Deck recording mute & head select control 2.		
70	B I / II	O	Control port of recording equalizer for deck.		
71	NOR	O	Switching port of bias (NOR/CrO2) for deck.		
72	BIAS	O	Control port of bias on/off for deck.	ON	OFF
73	R/P	O	Deck recording & playback changeover.	RECORDING	PLAYBACK
74	BEAT C	O	On/off control port of beat cancel for deck.	ON	OFF
75	NC	-	Unused.		
76	EVCLK	O	Sound controller clock output.		
77	EVDATA	O	Sound controller data output.		
78~80	NC	-	Unused.		
81	LED STBY GRN	O	Standby led (green) control port.	OFF	ON
82	LED STBY RED	O	Standby led (red) control port.	OFF	ON
83,84	NC	-	Unused.		
85	CD POWER	O	CD DSP power on/off changeover control.	ON	OFF
86	SP RLY	O	On/off control port for speaker relay.		
87	AMUTE	O	Audio mute output.		
88	POWER	O	Power relay control.		
89	PROTECTION	I	Detection port for power supply protection.		
90	RDS DATA	I	RDS data input. (RDS version only)		
91	TU MUTE	O	Tuner mute control.		
92	EMPHASIS	-	Unused.		
93	ST	I	Stereo detector input.		
94	SD	I	SD detector input.		
95	GND	-	Connected to ground.		
96	PLL DATA	O	PLL IC data output.		
97	PLL CLK	O	PLL IC clock output.		
98	PLL DO	I	PLL IC data input.		
99	PLL CE	O	PLL IC chip enable output.		
100	DAVDD	I	D/A converter positive voltage.		

*Used for RXD-M33MD only.

RXD-M33/M33MD

CIRCUIT DESCRIPTION

5. Test Mode

5-1 Setting method of the Test Mode

- While pressing the "below each" key in the table, turn the power switch on.

TEST MODE	SETTING METHOD
CD MODE	CD PLAY key+AC ON
MD MODE (M33MD only)	MD PLAY Key + AC ON
DECK MODE	TAPE PLAY key + AC ON (RXD-M33MD)
	TAPE FWD PLAY + AC ON (RXD-M33)
*SUB CLOCK OSC DIAGNOSIS	STOP key + AC ON

*The oscillation diagnosis (existence of oscillation and measurement of period) of a sub clock is performed before the test mode is entered. If the diagnosis result is OK, the system enters the test mode.

If the diagnosis result is NG, the oscillation of the sub clock is diagnosed again. If the result is OK, the system enters the test mode. If the diagnosis result is continuously NG 5 times, the system stops with "ERR1" and "ERR2" displayed.

5-2 Cancel of the test mode

- By turning the AC off, the system is initialized and the test mode is canceled.
- Cancel the test mode only if the power switch is turned off.

5-3 Contents of the Test Mode

- The muting during mode selection is not controlled in the test mode.
- During the test mode, it can be operated in a special manner that is different from an ordinary operation by using the keys on the main body, specifically as shown in the following tables.

5-4 CD Test Mode

KEYS	DISPLAY	OPERATION
CD-PLAY/PAUSE (Cyclically changed the mode 05 and 03 by pressing the key.)	05 * : * : * (* : * : *)Time Display	Tracking-servo on.
	03 * : * : * (* : * : *)Time Display	Tracking-servo off.
CD STOP (Cyclically changed in the stop mode only.)	01 --:--	Stop the CD operation.
	07 FG/FE	Adjustment value/mean value FG value /FE value
	08 FB/FO	FBAL value /FO value
	09 TG/TE	TG value /TE value
	10 TB/TO	TBAL value /TO value
SKIP UP	Ex.01~02	• Track number up.
SKIP DOWN	Ex.02~01	• Track number down.
SKIP UP	Usual Indication	• Play the first track number in the stop mode.
SKIP DOWN	Usual Indication	• Play the last track number in the stop mode.
REPEAT	FF	• CD FF search.
		• The pickup travels outward in the stop mode.
SOUND	FB	• CD FB search.
		• The pickup travels inward in the stop mode.

5-5 Deck Test Mode

KEYS	DISPLAY	OPERATION
TAPE REC (RXD-M33MD)	TAPE	<ul style="list-style-type: none"> 4 Seconds Recording If the REC/ARM key is pressed, the system record for 4 seconds. Then, it rewinds to the REC starting position and plays back automatically. If the REC/ARM key is pressed, during the 4 seconds REC operation, the system records further for 4 seconds, then returns to the starting position of the first 4 seconds REC operation and plays back.
TAPE O.T.E. (RXD-M33)		
SOUND	Beat-C ON	Beat cancel will be on while pressing the sound key.
MENU	Normal Indication	Changeover the EQ. On/off cyclically.

RXD-M33/M33MD

CIRCUIT DESCRIPTION

※Mechanism half switches indication

The mechanism half switches status are indicated "blank" or "E" on the display.

8th Dot(Display)	1st figure	2nd figure	3rd figure	4th figure
Mechanism Half Switch	FWD REC Inhibit Detection SW	RVS REC Inhibit Detection SW	CrO2(TYPE II) Detection SW	Cassette Half Detection SW
ON	Blank	Blank	Blank	Blank
OFF	E	E	E	E

5-6 MD Test Mode

KEYS	DISPLAY	OPERATION
REPEAT	Usual Indication	Hi-speed O.T.E.(CD→MD) operation in the stop mode.
	FF	MD FF search in the play mode.
SOUND	DIGITAL or ANALOG	The digital and analog can be changed cyclically by pressing the "SOUND" key.
	FB	MD FB search in the play mode.
STOP	01 --:--	Stop the MD operation.
MD REC	Usual Indication	Start the MD recording with LP4 mode.
SET	ALL ERASE	Stop the MD operation, and start operation of ALL- ERASE if disc is recordable.

6. Initializing the MD Mechanism

6-1 Initialization Method

- Turn the AC on while pressing the MD [EJECT] key.

7. MD Test Mode for Adjustment

7-1 Contents of the Test Mode

7-2 Entering the Test Mode

- Turn the AC on while pressing the MD [PLAY/PAUSE] key and MD[REC] key simultaneously.

7-3 Canceling the Test Mode

- Turn the AC off.

7-4 Key Operations for Adjustment

KEYS	OPERATION
Volume/multi-control	Select the mode or changed the adjustment value.
MD PLAY/PAUSE	Fix the mode or adjustment value.
	Skip to next step.
STOP	Cancel the selected mode and changed to menu page. Return to the state previous before.
MENU	Select servo of PIT or GROOVE.
REPEAT	Changeover the display mode.
SKIP UP	Pickup moves outwards when pressed skip up key.
SKIP DOWN	Pickup moves inwards when pressed skip down key.
SET/DEMO	Changeover the tracking servo on/off.
TAPE REC	Servo on.
SOUND	Changeover the usual mode, key shift mode and EEP mode.

RXD-M33/M33MD

CIRCUIT DESCRIPTION

7-5 LCD Indication for Mechanism Operation

LCD	DESCRIPTION
[▶]	Servo on.
[]	Tracking servo on
[●]	Servo on (laser write power)
[▶]	Servo GROOVE mode
[◀]	Servo PIT mode
[LOUD]	Key shift
[EX. BASS]	EEP mode
[↺]	Spindle lock
[MD]	Recordable disc

7-6 Selection of Adjustment Test Mode

- Whenever the [volume/multi-control] knob is turned the adjustment test mode is selected.

No.	LCD	DESCRIPTION	SECTION
1	TEMP ADJU	The work of adjustment is unnecessary in this mode.	4-5
2	LDPWR ADJU	Laser power adjustment.	4-6
3	LDPWR CHEC	Laser power check.	4-6
4	EFBAL ADJU	EF balance adjustment (Traverse adjustment).	4-7
5	TE B. ADJ	Automatic EF balance adjustment.	4-7
6	FBIAS ADJU	Focus bias adjustment.	4-8
7	CPLAY MODE	Continuous playback mode.	3-7
8	CREC MODE	Continuous recording mode.	3-8
*9	STT-LIMIT	Check the mechanism start limit switch position.	-
*10	JUMP MODE	Track jump checking mode.	-
*11	SRV DAT RE	Servo data reading.	-
*12	EEP MODE	E2PPROM data reading or rewrite.	-
*13	EEP INITIAL	E2PPROM data initializing.	-

For more information on each adjustment mode, refer to each section of 4, "Electrical adjustment".

*The number 9~13 are not used on occasion of service. If you entered them incorrectly, press the "STOP" key immediately to exit the mode. Specially, do not use "EEP INITIAL". (E2PPROM data has initialized if used it.)

7-7 Continuous Playback Mode

1. Setting of Continuous Playback Mode		
No.	Key	Display/Function
1	Volume/ multi-control	Select [CPLAY MODE]
2		Load disc
3	PLAY	[CPLAY MID] [c=xxxx a=yy] error (xxxx=C1 error, yy=ADIP error)
4	REPEAT	[CPLAY(zzzz)] CPLAY address (MID=0300h, OUT=0700h, IN=0030h cluster)
5	REPEAT	[h****d@@@] address (****=current head address, @@@=ADIP address)

In No.5, Display shows [-] if can't read disc.

2. Change of Playback Points(in continuous playback mode)		
No.	Key	Display/Function
1	PLAY	[CPLAY OUT]
2		Carry out No.4 and 5 in the above table.
3	PLAY	[CPLAY IN]
4		Carry out No.4 and 5 in the above table.
5	STOP	[CPLAY MODE]
6	EJECT	Disc out

7-8 Continuous Recording Mode

1. Continuous Recording Setting		
No.	Key	Display/Function
1	Volume/ multi-control	Select [CREC MODE]
2		Load the recordable disc
3	PLAY	[CREC MID]
4	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point)
5	REPEAT	[h****d@@@] address
6	REPEAT	[c=xxxx a=yy] error
7	REPEAT	[CREC (zzzz)]
8	STOP	[CREC MODE]
2. Change and End of Recording Points		
1		Carry out No.1 to 3 in the above table Select[CREC MID]
2	Volume/ multi-control	[CREC OUT]
3	PLAY	[CREC (zzzz)] CREC address (0700h cluster=recording start point) Carry out No.5 to 8 in the above table
4	PLAY	Select [CREC MID]
5	Volume/ multi-control	Select [CREC IN]
6	PLAY	[CREC (zzzz)] CREC address (0300h cluster=recording start point) Carry out No.5 to 8 in the above table
7	EJECT	Disc out

Starting address is the followings.

IN=30h cluster, MID=300h cluster, OUT=700h cluster

- The recording start addresses of IN, MID, and OUT are described below.
IN 30H cluster
MID 300H cluster
OUT 700H cluster
- An erasure prevention control is not detected in the test mode. Be careful not to enter the continuous recording mode using a disc containing the data that should not be erased.
- Do not record continuously for more than five minutes.
- Take care that no vibration is applied during continuous recording.

8. Electrical adjustment

8-1 Precaution during confirmation of Laser Diode emission

During adjustment, do not view the emission of a laser diode from just above for confirmation. This may damage your eyes.

8-2 Precaution on handling of Optical pick-up (KMS-260B)

The laser diode in an optical pick-up is easy to be subject to electrostatic destruction. Therefore, solder-bridge the laser tap on the flexible board when handling the optical pick-up.

RXD-M33/M33MD

CIRCUIT DESCRIPTION

1. Recordable Disc		
No.	Key	Display/Function
1		Connect the oscilloscope to TE1 and VC in X33 pcb
2	Volume/ multi-control	Select [EFBAL ADJU]
3		Load the recordable disc
4	PLAY	[EFBAL MO-W]
5	PLAY	[EF=\$*:MOW]
6	Volume/ multi-control	Write power adjustment. Adjust the waveform as follows.
7	PLAY	Display shows [EF=\$*:MOR] after [EFB=\$*:xSAVE] to save the data in E2PROM. Mode changes write to read Focus and disc servo are on. Tracking servo off.
8	Volume/ multi-control	Read power adjustment. Adjust the waveform as follows.
9	PLAY	Save the data in E2PROM. Display shows [EFBAL MO-P]
	PLAY	Display shows [EF=\$*:MOP] (Pickup travels to search pits and tune the servo to on.)
10	Volume/ multi-control	Adjust the waveform as follows.
11	PLAY	Display shows [EFB=\$*:xSAVE] to save the data in E2PROM. Display shows [EFBAL CD] disc motor stops.
12	EJECT	Unload disc.
2. Pre Master Test Disc(TGYS-1)		
No.	Key	Display/Function
1		Load the disc(TGYS-1).
2	PLAY	[EF=\$*:CD] servo is on
3	Volume/ multi-control	Adjust the waveform as follows.
4		Save the data in E2PROM. Display shows [EFB=\$*:xSAVE] in brief time. [EF PHASE]
5	EJECT	Unload disc.

During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

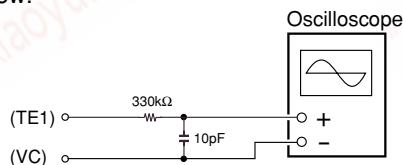
(Traverse waveform)



Specification : A = B

Notes :

1. Data is erased during MO write when a recorded disc is used for this adjustment.
2. If the traverse waveform is difficult to be monitored, connect an oscilloscope as shown in the figure below.



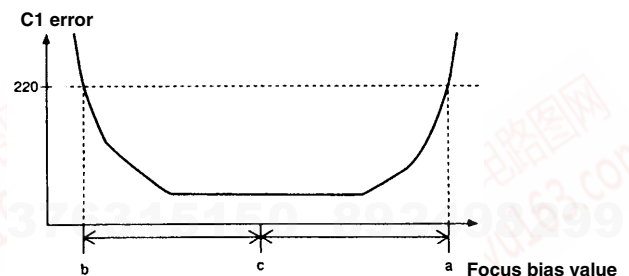
8-8 Focus Bias Adjustment

Use the special disc(continuous recorded disc)

No.	Key	Display/Function
1	Volume/ multi-control	Select [FBIAS ADJU]
2		Load the disc.
3	PLAY	[a=xx yyyy/] point a (xx=focus bias, yyyy=C1 error)
4	Volume/ multi-control	Adjust "yyyy" to 220:
5	PLAY	[b=xx yyyy/] point b
6	Volume/ multi-control	Adjust "yyyy" to 220:
7	PLAY	[xx yyyy/] point c Check "yyyy" within 50
8	PLAY	Display shows [aa bb cc(xx)] focus bias adjust (aa= point a,bb=b,cc=c)

* Notes :

1. The relation between the C1 error and focus bias value is shown in the figure below. Points "a" and "b" in the figure are detected by the above adjustment. Focal position "C" is automatically obtained from points "a" and "b" by calculation.
2. The C1 error rate fluctuates. Therefore, perform the adjustment according to the observed mean value.



8-9 Error Rate Check

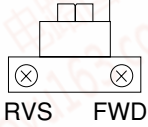
No.	Key	Display/Function
1. CD Error Rate		
1	Volume/ multi-control	[CPLAY MODE]
2		Load the test disc(TGYS-1)
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 20) yy=AIDP error
4	STOP	[CPLAY MODE]
5	EJECT	Unload disc.
2. MO Error Rate		
No.	Key	Display/Function
1	Volume/ multi-control	[CPLAY MODE]
2		Load the recordable disc
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 50) yy=AIDP error(00)
4	STOP	[CPLAY MODE]
5	EJECT	Unload disc.

RXD-M33/M33MD

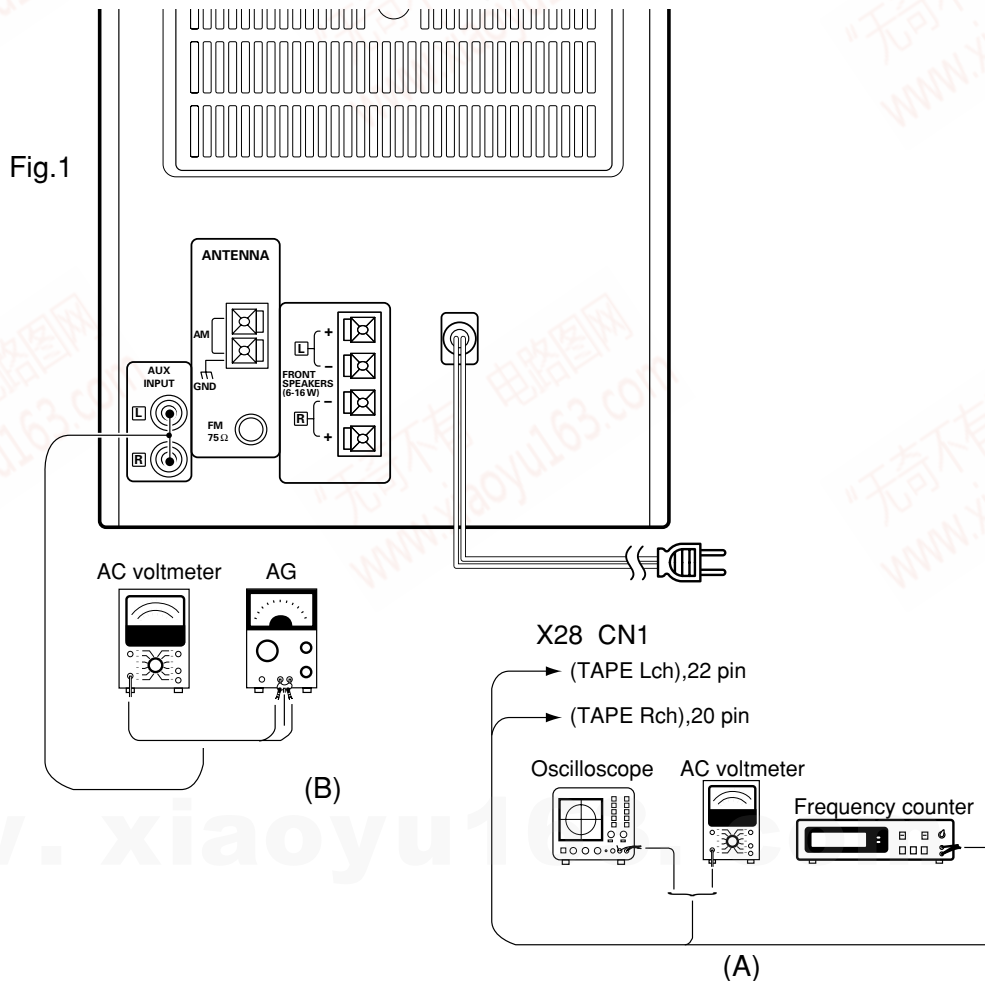
ADJUSTMENT

Cassette Deck adjustment

0dBs=0.775V

No	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
I . CASSETTE MECHANISM UNIT							
< 1 >	Demagnetization and cleaning	—	—	Demagnetization: POWER OFF Cleaning: PLAY	Recording head, erase head, capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser. Clean the REC / PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
< 2 >	Azimuth of the REC/PLAY head	SCC-1727 TCC-153 MTT-114 10kHz, - 10dB	(A)	PLAY	 RVS FWD	Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight line.	Fig.1
< 3 >	TAPE SPEED (NORMAL)	TCC-110 MTT-111 SCC-1727 3kHz	(A)	PLAY	Trimming pot in the motor.	Check the tape speed so that 3kHz(±2%) is obtained at the center of the tape.	Fig.1
II . PC BOARD ADJUSTMENT							
< 1 >	BIAS CURRENT	(B) Connect the AG to jack. 400Hz: - 20dBs 12.5kHz: - 20dBs	(A)	REC and PLAY	VR 1 (L) VR 2 (R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	Fig.1

SYSTEM CONNECTIONS



RXD-M33/M33MD

ADJUSTMENT

CD player adjustment

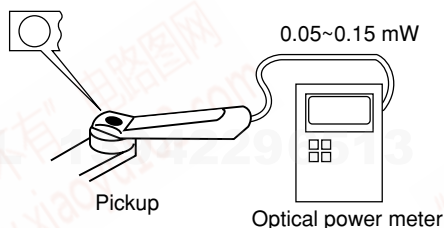
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE : While pressing the [CD PLAY/PAUSE] key, turn power on.							
1	LASER POWER	—	Set the sensor section of the optical power meter on the pickup lens.	Short circuit OPEN/CLOSE SW. Press the "PLAY" key to check that the display is "03".	—	On the power from 0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	LASER CURRENT	Test disc Type 4	Connect the DC voltmeter to CN23(#1 and #2) in X29	Press the "PLAY" key to check that the display is "03" or "05"	—	220mV to 550mV	

Note:

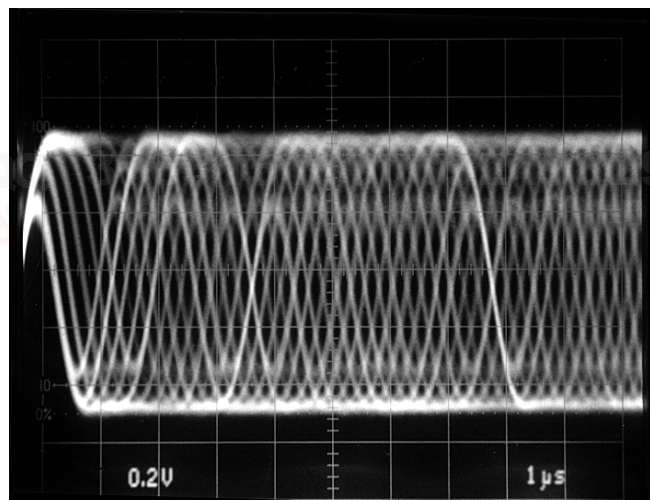
Type 4disc :SONY YEDS-18 Test Disc or equivalent. (KTD-02)

LPF : Around 47k Ω + 390pF or so.

(a) Laser Power



RF signal: AC coupled

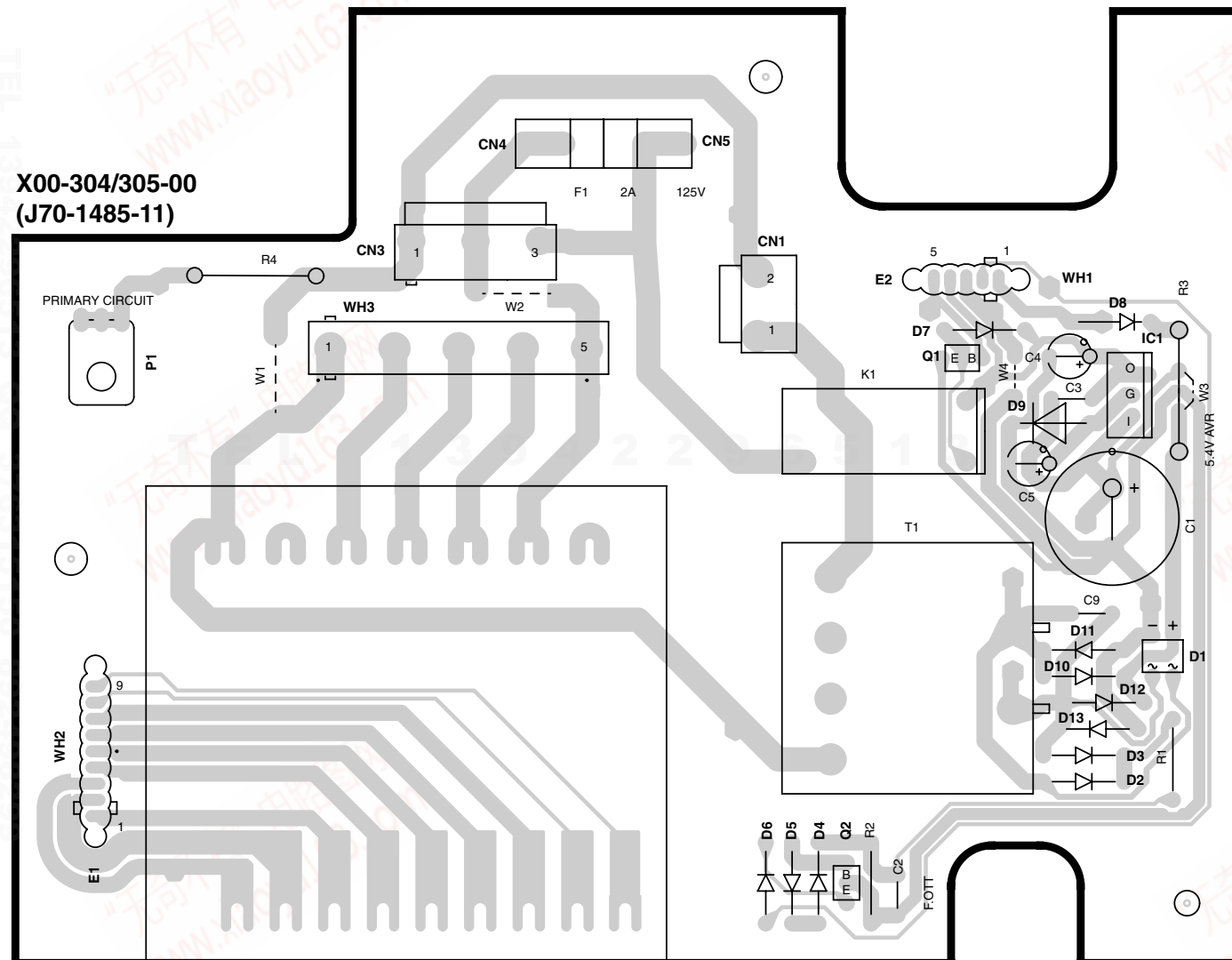


- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

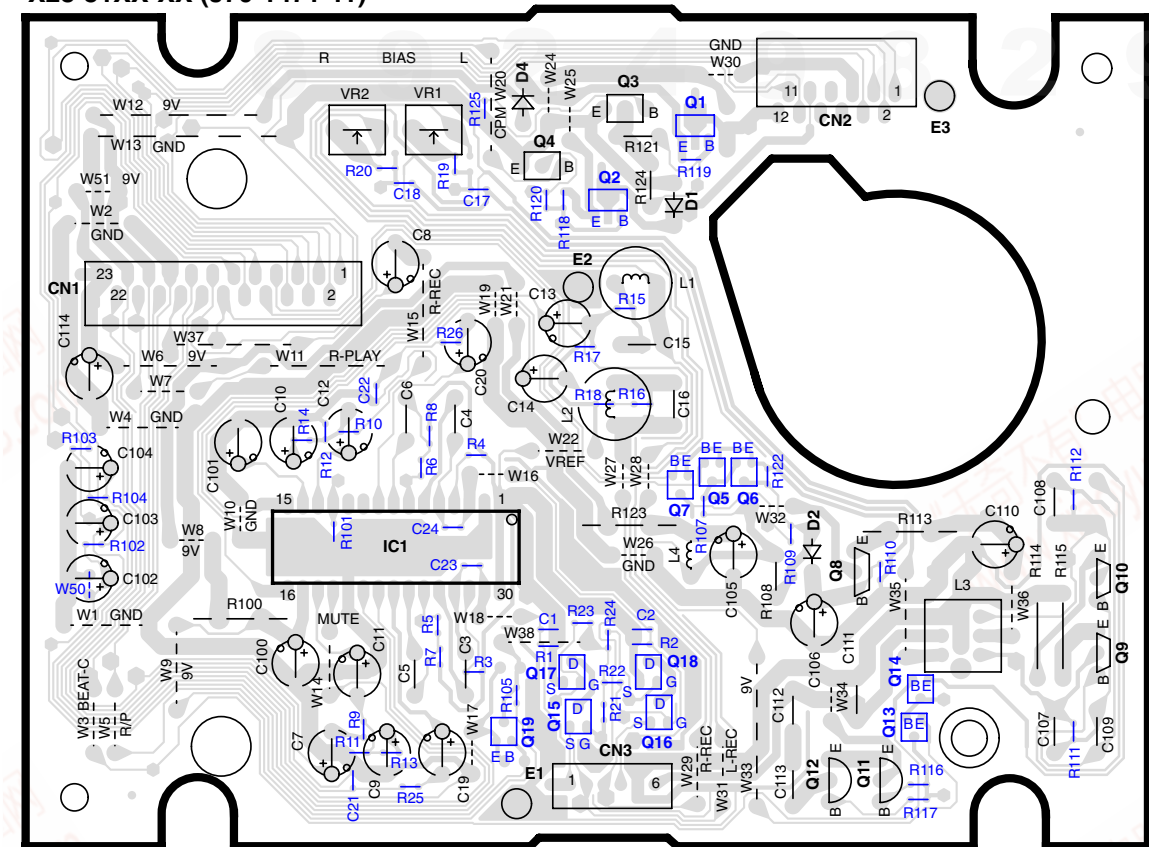
WIRING DIAGRAM



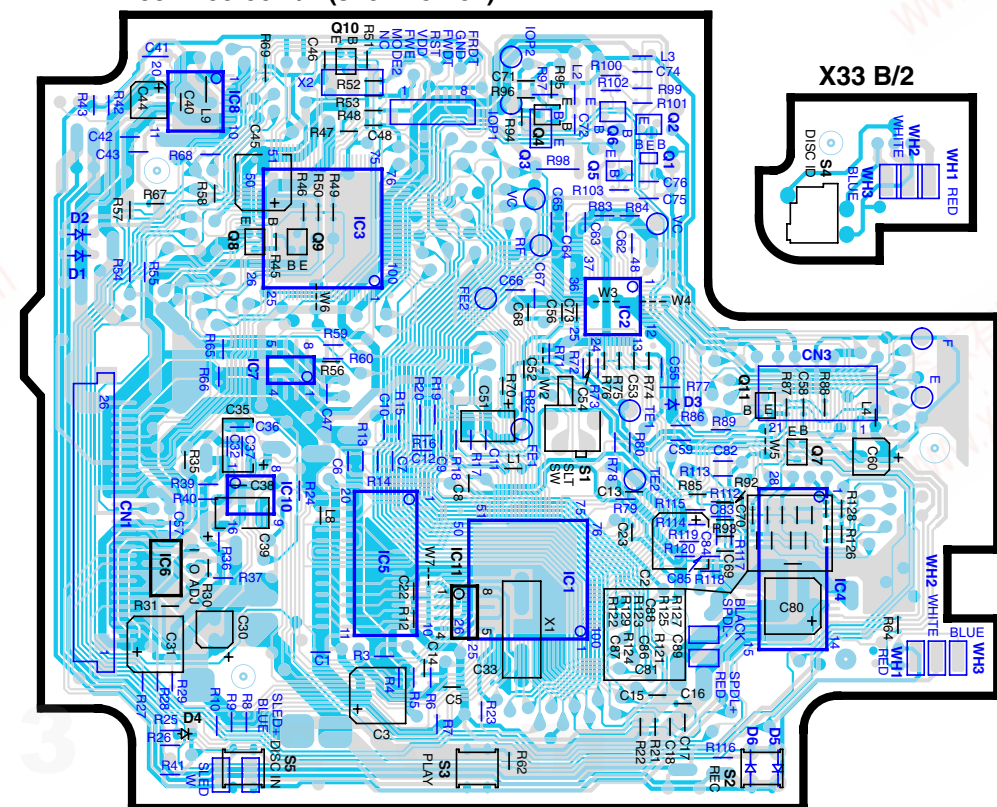
PC BOARD (Component side view)



X28-31XX-XX (J70-1471-11)

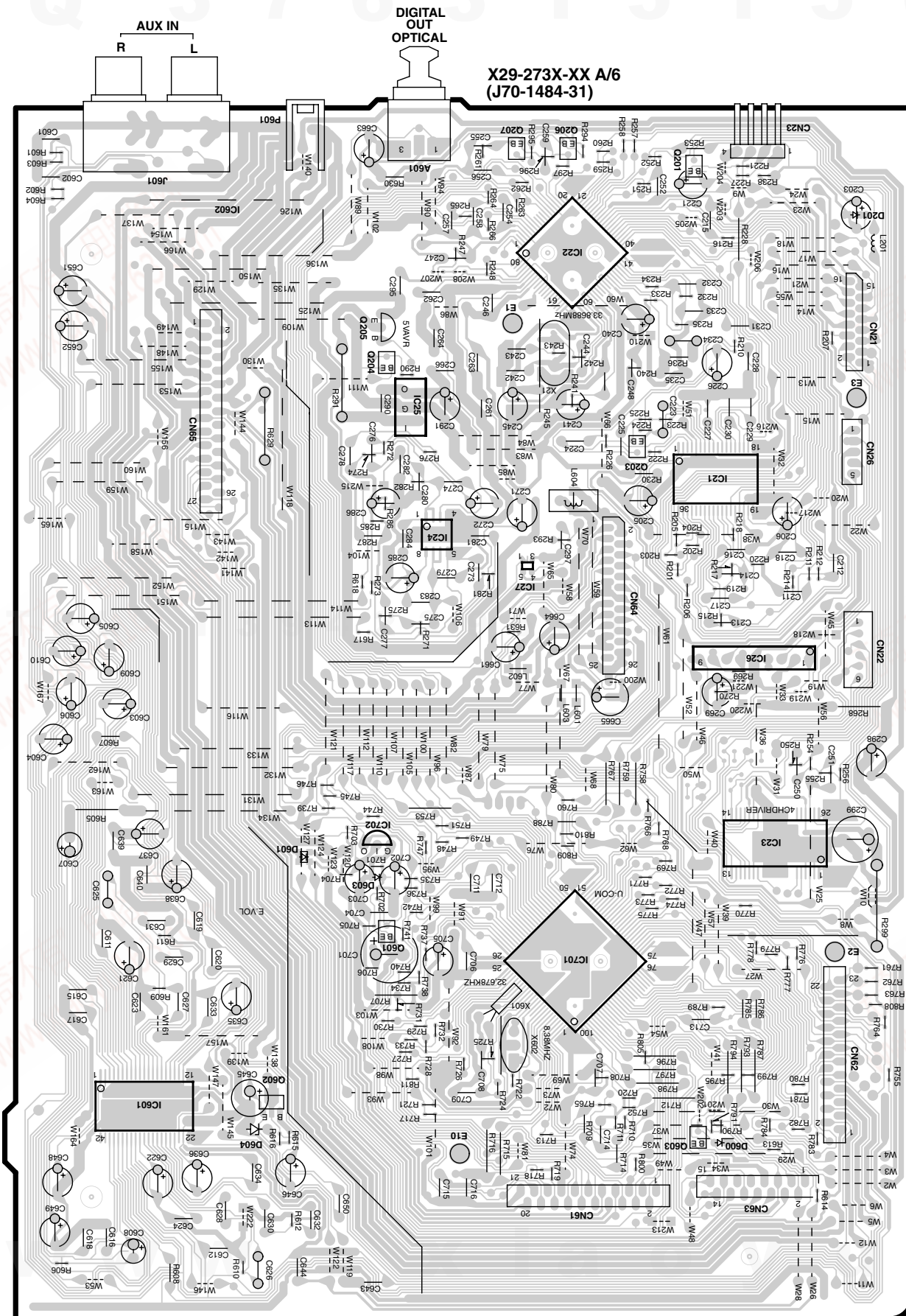


X33-1260-00 A/2 (J70-1452-02)

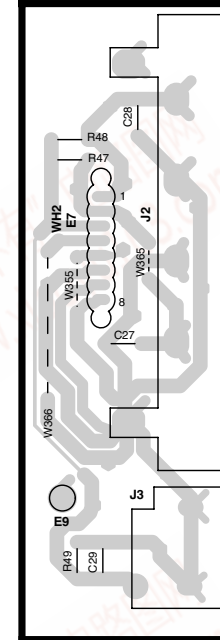


Refer to the schematic diagram for the value of resistors and capacitors.

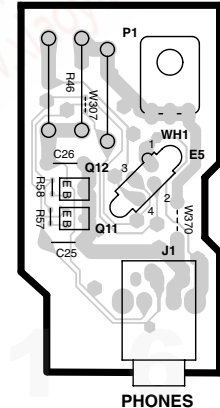
PC BOARD (Component side view)



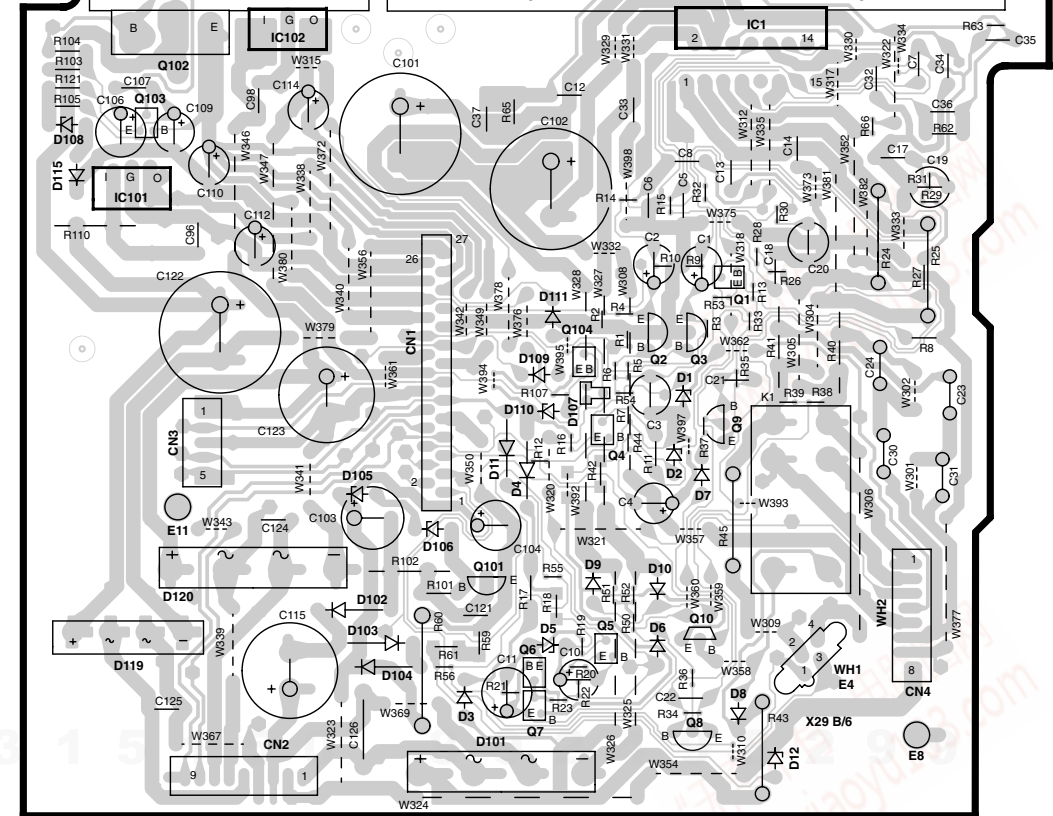
X29 C/6



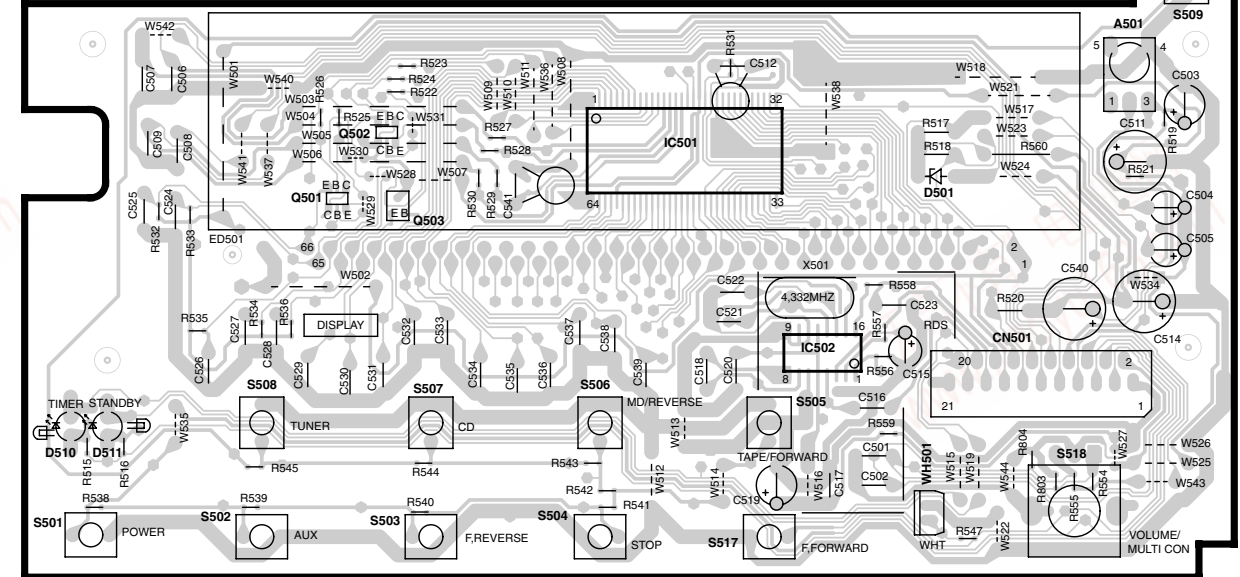
X29 D/6



X29 B/6



X29 E/6



X29 F/6



Refer to the schematic diagram for the value of resistors and capacitors.

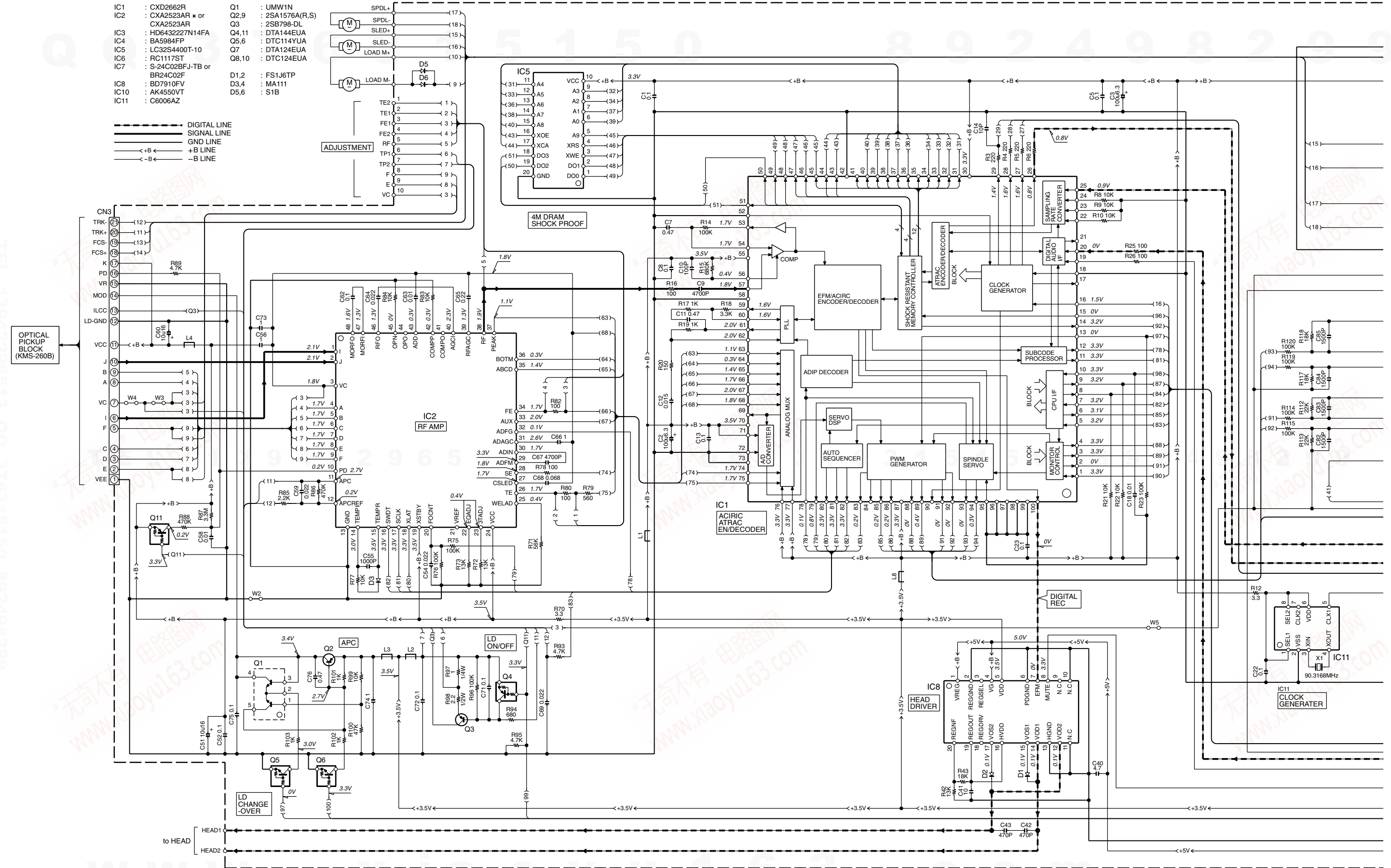
IC1 : CXD2662R
IC2 : CXA2523AR * or
CXA2523AR
IC3 : HD6432227N14FA
IC4 : BA5984FP
IC5 : LC32S4400T-10
IC6 : RC1117ST
IC7 : S-24C02BFJ-TB or
BR24C02F
IC8 : BD7910FV
IC10 : AK4550VT
IC11 : C6006AZ

Q1 : UMW1N
Q2,9 : 2SA1576A(R,S)
Q3 : 2SB798-DL
Q4,11 : DTA144EUA
Q5,6 : DTC114YUA
Q7 : DTA124EUA
Q8,10 : DTC124EUA

D1,2 : FS1J6TP
D3,4 : MA111
D5,6 : S1B

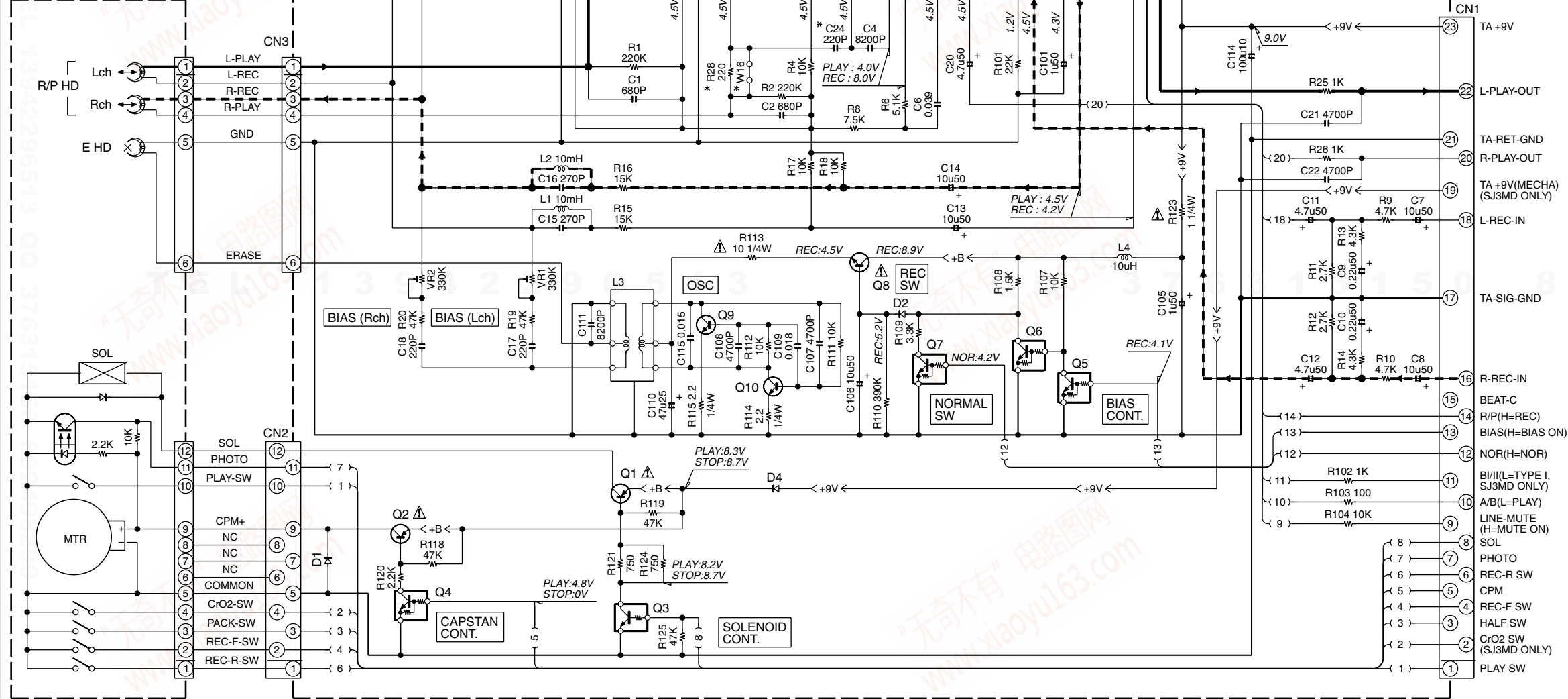
--- DIGITAL LINE
--- SIGNAL LINE
--- GND LINE
--- +B LINE
--- -B LINE

(X33-1260-00) (A/2)



IC1 : HA12230NT
 Q1,2 : 2SB1424(Q,R)
 Q3 : DTC143TSA or UN4216
 Q4 : KRC103M or UN4212
 Q5-7,19 : DTC124EUA or UN5212
 Q8 : KTC3205 or 2SC3940A(R,S)
 Q9,10 : KTC3199(Y,GR) or 2SC2785(F,E)
 Q15-18 : RK7002
 D1,2 : 1SS133 or HSS104A
 D4 : S5688B(TPB5)

CASSETTE MECHANISM ASSY (D40-1716-*)



RXD-M33MD-S/M33MD-L/M33MD-N (2/4)
 RXD-M33-S/M33-L/M33-N (2/4)
 RXD-M33E-S/M33E-L/M33E-N (2/4)

RXD-M33MD-S (X28-313X-XX)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
GENERAL MARKET	M	0-01	NO	NO
MALAYSIA	I			YES
AUSTRALIA	X			
U.K.	T	2-71	YES	YES
EUROPE	E			NO

RXD-M33MD-L (X28-313X-XX)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
GENERAL MARKET	M	0-01	NO	NO
KOREA	H	2-71	YES	YES
U.K.	T			NO

RXD-M33MD-N (X28-31XX-XX)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
GENERAL MARKET	M	30-01	NO	NO
U.K.	T	32-71	YES	YES
SHANGHAI	V2	52-10	NO	NO

RXD-M33-S (X28-313X-XX)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
U.S.A.	K			
CANADA	P			
GENERAL MARKET	M1	0-01	NO	NO
MALAYSIA	I1			YES
AUSTRALIA	X1			
U.K.	T1			
EUROPE	E1	2-71	YES	YES
KOREA	H1			NO

RXD-M33-L (X28-31XX-XX)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
U.S.A.	K			
CANADA	P			
GENERAL MARKET	M1	30-01	NO	NO
GENERAL MARKET	M2			YES
MALAYSIA	I1			
AUSTRALIA	X1			
U.K.	T1			
EUROPE	E1	32-71	YES	YES
KOREA	H1			NO
SHANGHAI	V1	52-10	NO	NO

RXD-M33-N (X28-31XX-XX)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
GENERAL MARKET	M1	0-01	NO	NO
GENERAL MARKET	M2			YES
U.K.	T1	2-71	YES	YES
EUROPE	E2			NO

RXD-M33E-S/M33E-L/M33E-N (X28-3132-71)

DESTINATION	UNIT	C23,	R27,	W16,
COUNTRY	ABB.	No.	24	28
GENERAL MARKET	M1	0-01	NO	NO
GENERAL MARKET	M2			YES
U.K.	T1	2-71	YES	YES
EUROPE	E2			NO

AQ-7

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

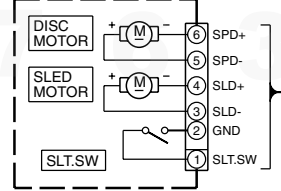
Y39-3862-70

RXD-M33/M33MD
KENWOOD

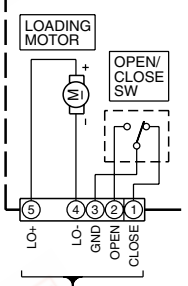
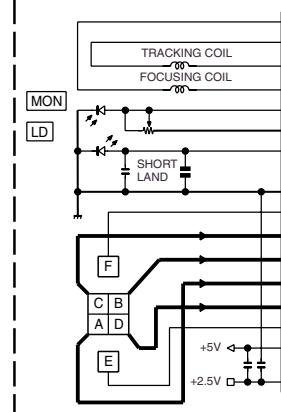
MD MECHA.
CN1

CD MECHANISM ASS'Y
(D40-1714- *5)

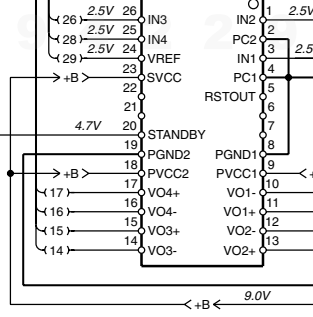
TRAVERSE UNIT (D40-1515-05)



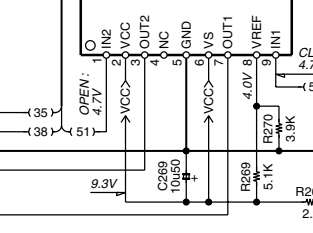
PICKUP (KSS-213C)



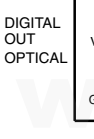
IC23 (BOTTOM VIEW)



IC26 CD MECHA. DRIVER



A601



(X29-273X-XX) (A/6)

TEST POINT

CN23

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CN30

CN31

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CN33

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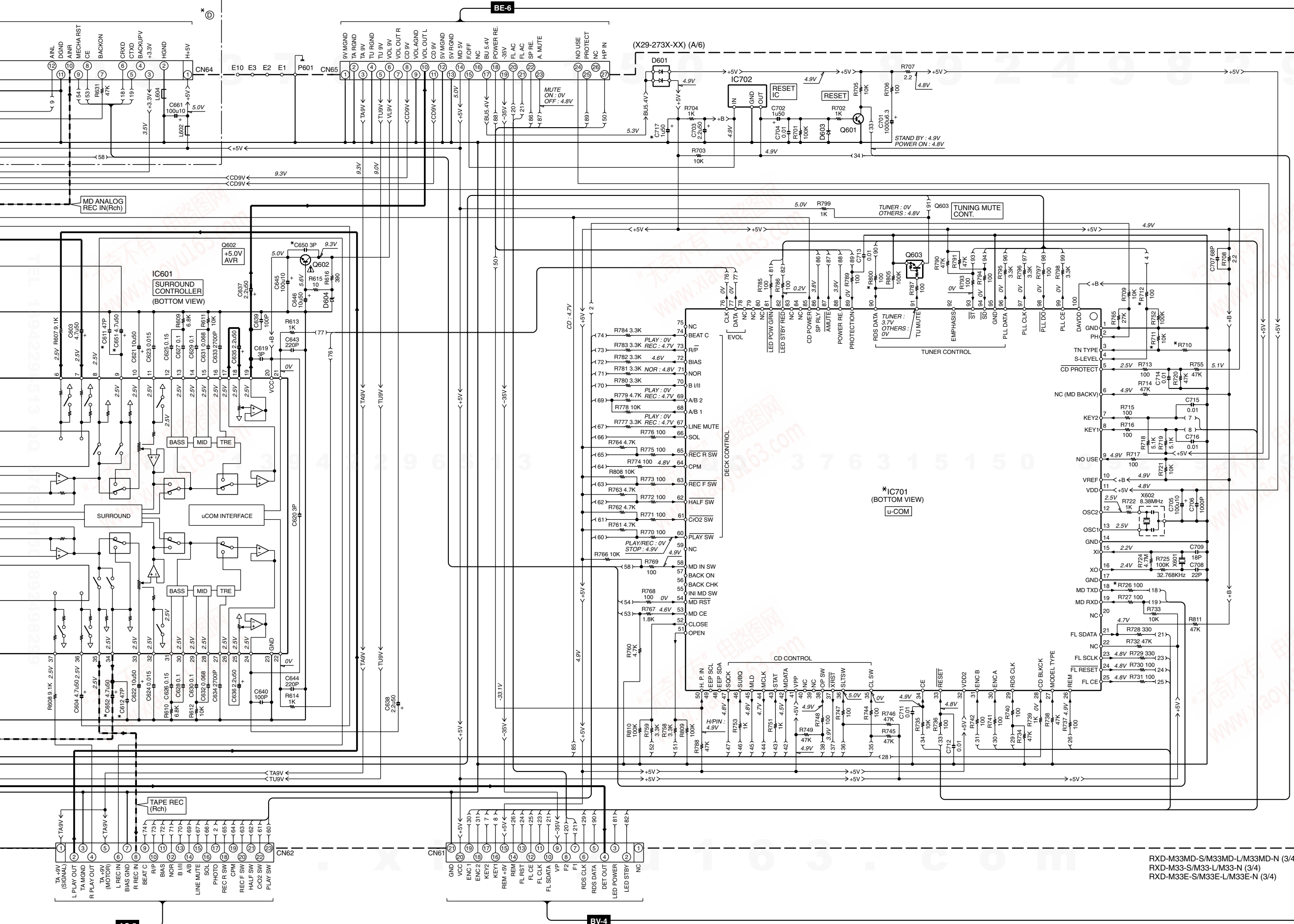
CN319

CN320

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CN322

CN323



RXD-M33MD-S/M33MD-L/M33MD-N (3/4)
RXD-M33-S/M33-L/M33-N (3/4)
RXD-M33E-S/M33E-L/M33E-N (3/4)

X29-B/6

-CN1

4/4



RXD-M33MD-S (X29-273X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
GENERAL MARKET	M		0-21	NO	YES	YES	10P	NO	NO	YES	MN101C49KLB	YES	YES	470	22K	YES	NO	NO	YES	L77-2338-05
U.K.	T		2-71					YES							10K	NO	YES			
EUROPE	E																			

RXD-M33MD-L (X29-273X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
GENERAL MARKET	M		0-21	NO	YES	YES	10P	NO	NO	YES	MN101C49KLB	YES	YES	470	22K	YES	NO	NO	YES	L77-2338-05
KOREA	H		2-71					YES							10K	NO	YES			
U.K.	T																			

RXD-M33MD-N (X29-27XX-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
GENERAL MARKET	M		30-21	NO	YES	YES	10P	NO	NO	YES	MN101C49KLB	YES	YES	470	22K	YES	NO	NO	YES	L77-2338-05
U.K.	T		32-71					YES							10K	NO	YES			
SHANGHAI	V2		72-10												22K	YES	NO			

RXD-M33-S (X29-273X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
U.S.A.	K		0-11					NO	YES						6.8K		YES	NO		
CANADA	P														22K					
GENERAL MARKET	M1		0-22	YES	NO	NO	56P			NO	MN101C49HLC	NO	NO	120	39K			YES	NO	L77-2190-05
U.K.	T1		0-71												10K	NO	YES			
EUROPE	E1		2-72					YES												
KOREA	H1																			

RXD-M33-L (X29-27XX-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
U.S.A.	K		30-11					NO	YES						6.8K		YES	NO		
CANADA	P														22K					
GENERAL MARKET	M1		30-22	YES	NO	NO	56P			NO	MN101C49HLC	NO	NO	120	39K			YES	NO	L77-2190-05
U.K.	T1		30-71												10K	NO	YES			
EUROPE	E1		32-72					YES												
KOREA	H1		72-11												22K	YES	NO			
SHANGHAI	V1																			

RXD-M33-N (X29-273X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652,717	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
GENERAL MARKET	M1		0-22	YES	NO	NO	56P	NO	NO	NO	MN101C49HLC	NO	NO	120	22K	YES	NO	YES	NO	L77-2190-05
U.K.	T1		2-72					YES							10K	NO	YES			
EUROPE	E1																			

RXD-M33E-S/M33E-L/M33E-N (X29-2732-72)

DESTINATION	COUNTRY	ABB.	UNIT No.	①	②	C224,225,297,607,608,611,612,615,616,651,652,717	C242,243	C650	C667,668,717	IC27	IC701	Q203	R210,225,226,293,605,606,726	R242	R710	R711	R712,800	W207	W208	X21
EUROPE	E2		2-72	YES	NO	NO	56P	YES	NO	NO	MN101C49HLC	NO	NO	120	10K	NO	YES	YES	NO	L77-2190-05

IC21 : AN8806SBM
 IC22 : MN662748RPMFA
 IC23 : AN4801SB-E1
 IC24 : NJM4565M
 IC25 : TA7805SB
 IC26 : TA8409S
 IC27 : HD74LV1G08A
 IC601 : M61510FP
 IC701 : *
 IC702 : S-80840ANY

Q201,206 : 2SA1577(Q,R)
 Q203,207,601 : 2SC4081(R,S) or
 2SD1819A(Q,R)
 Q204 : UN5212 or
 DTC124EUA
 Q205 : 2SA1286-T11
 Q602 : 2SD1963(R,S) or
 2SD1664(Q,R)
 Q603 : UN5219 or
 DTC113ZUA

D201,603 : MA111
 D601 : 1SS402
 D604 : MTZJ5.6(B) or
 HZS5.6N(B) or
 RD5.6ES(B)

----- RECDING LINE
 ----- DIGITAL LINE
 ----- SIGNAL LINE
 ----- GND LINE
 <+B< ----- +B LINE
 <-B< ----- -B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.

RXD-M33/M33MD

KENWOOD

Y39-3862-70

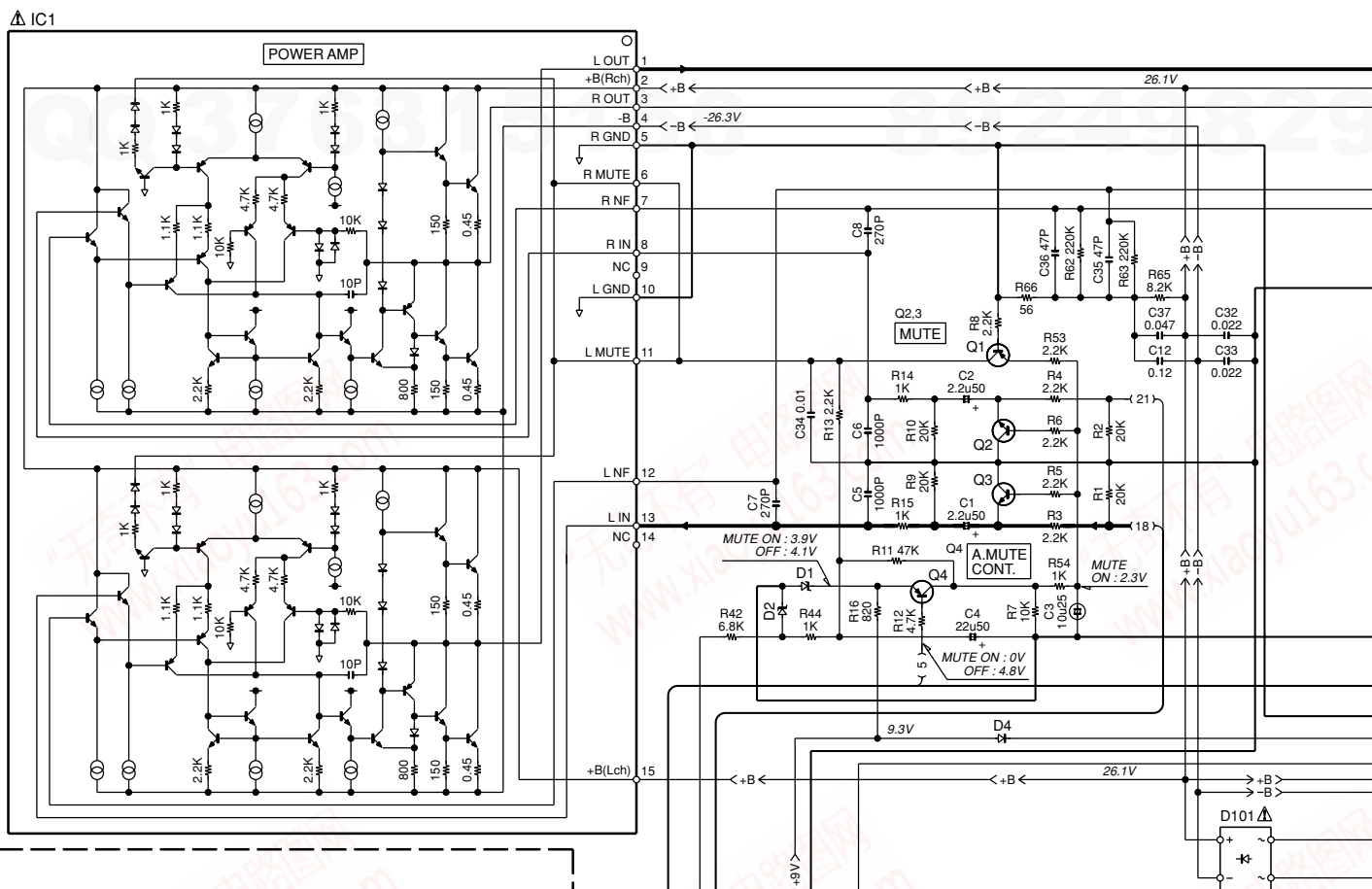
X29-E/6

-CN501

4/4



(X29-) (B/6)



(X29-) (B/6) (D/6) (E/6)

IC1 : LM4766T
 IC101 : TA7809SB
 IC102 : KIA7805API
 IC501 : M66005-001FP
 IC502 : BU1923F

Q1,4,5 : 2SA1576A(R,S) or
 2SB1218A(Q,R)
 Q2,3 : 2SC2878(B)
 Q6,7,103,503 : 2SC4081(R,S) or
 2SD1819A(Q,R)
 Q10 : DTC113ZSA or
 UN4219

Q101 : 2SA1534A(R,S)
 Q102 : 2SD2641
 Q104 : DTC124EUA
 UN5212
 Q501,502 : HN1C01F

D1 : MTZJ3.9(B) or
 HZS3.9N(B) or
 RD3.9ES(B)
 D2,108 : MTZJ8.2(B) or
 RD8.2ES(B)

D3,4,8,109,111,115 : 1SS133 or
 HSS104A
 D5 : MTZJ5.1(B) or
 HZS5.1N(B) or
 RD5.1ES(B)

D101,120 : D3SBA20F03
 D102-104 : S5688B
 D105 : MTZJ20(B) or
 HZS20N(B) or
 RD20ES(B)

D106 : MTZJ15(B) or
 HZS15N(B) or
 RD15ES(B)
 D107 : DAP202U or
 1SS300 or
 MA142WA

D110 : MTZJ10(B) or
 HZS10N(B) or
 RD10ES(B)
 D119 : D2SBA20F03
 D501 : MTZJ6.2(B) or
 HZS6.2N(B) or
 RD6.2ES(B)

D510 : B30-2541-05
 D511 : B30-2546-05

— SIGNAL LINE
 — GND LINE
 — +B LINE
 — -B LINE

AQ-1

X29-A/6

-CN65

3/4

C

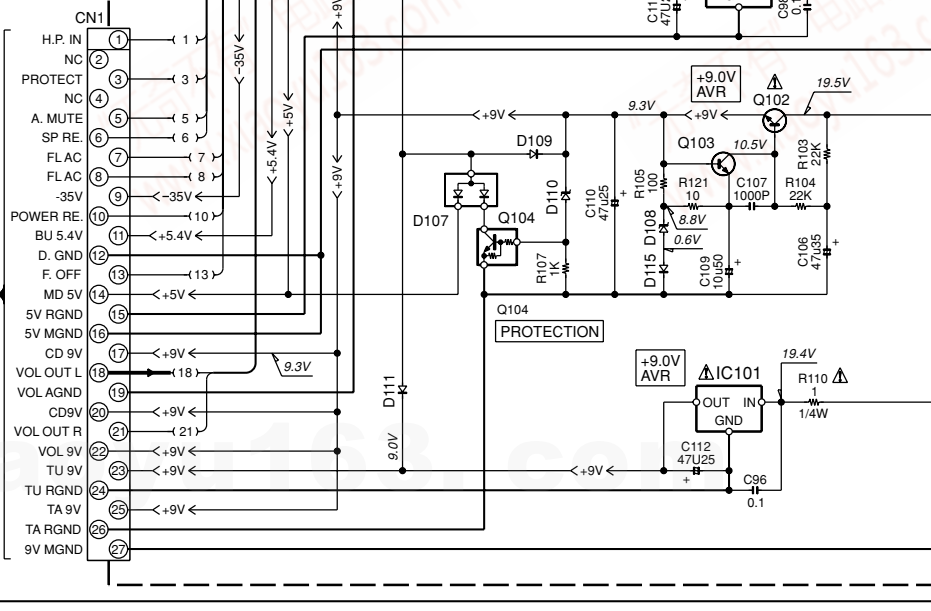
D

X29-A/6

-CN61

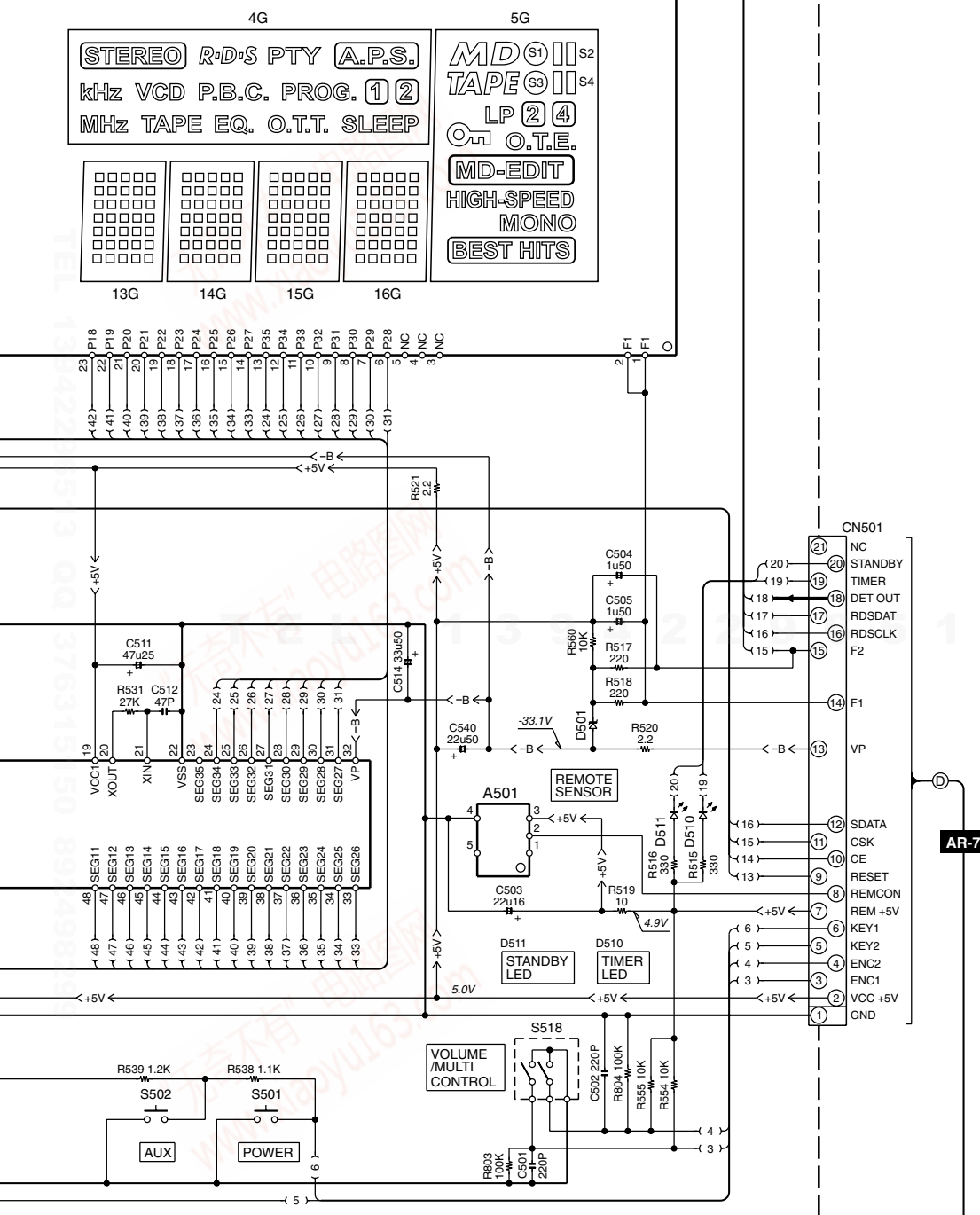
3/4

D



(X29-) (E/6)

ED501(HNA-16MM30T)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

RXD-M33MD-S (X29-273X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
GENERAL MARKET	M	0-21	NO	0.68	YES	NO	330	NO
MALAYSIA	I							
AUSTRALIA	X							
U.K.	T	2-71	YES				390	
EUROPE	E							

RXD-M33MD-L (X29-273X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
GENERAL MARKET	M	0-21	NO	0.68	YES	NO	330	NO
KOREA	H	2-71	YES				390	
U.K.	T							

RXD-M33MD-N (X29-27XX-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
GENERAL MARKET	M	30-21	NO	0.68	YES	NO	330	NO
U.K.	T	32-71	YES				390	
SHANGHAI	V2	72-10	NO				330	

RXD-M33-S (X29-273X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
U.S.A.	K	0-11	NO	0.33	NO		390	YES
CANADA	P							
GENERAL MARKET	M1	0-22	NO				330	
MALAYSIA	I1					NO		
AUSTRALIA	X1	0-71		0.68	YES			NO
U.K.	T1						390	
EUROPE	E1	2-72	YES					
KOREA	H1							

RXD-M33-L (X29-27XX-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
U.S.A.	K	30-11	NO	0.33	NO		390	YES
CANADA	P							
GENERAL MARKET	M1	30-22	NO				330	
MALAYSIA	I1							
GENERAL MARKET	M2			0.68	YES	NO		NO
AUSTRALIA	X1	30-71					390	
U.K.	T1							
EUROPE	E1	32-72	YES					
KOREA	H1							
SHANGHAI	V1	72-11	NO				330	

RXD-M33-N (X29-273X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
GENERAL MARKET	M1	0-22	NO	0.68	YES	NO	330	NO
GENERAL MARKET	M2	0-23						
U.K.	T1							
EUROPE	E1	2-72	YES				390	

RXD-M33E-S/M33E-L/M33E-N (X29-273X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	A	C23,30	C24,31	D9,10	R43	W301,302
EUROPE	E2	2-72	YES	0.68	YES	NO	390	NO

	1G	2G	3G	4G	5G	6G-16G
P1	PGM	TRACK	TOTAL	STEREO	MD	1-1
P2	S1	NO.	AUTO	R-D-S	TAPE	1-2
P3	S2	—	TUNED	PTY	S1	1-3
P4	FM	1a	1a	A.P.S.	S2	1-4
P5	AM	1b	1b	kHz	S3	1-5
P6	PM	1c	1c	VCO	S4	2-1
P7	S3	1d	1d	P.B.C.	LP	2-2
P8	ONE	1e	1e	PROG.	2	2-3
P9	S4	1f	1f	1	4	2-4
P10	REPEAT	1g	1g	2	5	2-5
P11	S5	2a	2a	MHz	O.T.E.	3-1
P12	RANDOM	2b	2b	TAPE	MD.EDIT	3-2
P13	S6	2c	2c	EQ.		3-3
P14	S7	2d	2d	O.T.T.	HIGH.	3-4
P15	LOUD	2e	2e	SLEEP	SPEED	3-5
P16		2f	2f	—	MONO	4-1
P17		2g	2g	—	BEST HITS	4-2
P18		3a	3a	—	—	4-3
P19	EX.BASS	3b	3b	—	—	4-4
P20	—	3c	3c	—	—	4-5
P21	—	3d	3d	—	—	5-1
P22	—	3e	3e	—	—	5-2
P23	—	3f	3f	—	—	5-3
P24	—	3g	3g	—	—	5-4
P25	—	4a	4a	—	—	5-5
P26	—	4b	4b	—	—	6-1
P27	—	4c	4c	—	—	6-2
P28	—	4d	4d	—	—	6-3
P29	—	4e	4e	—	—	6-4
P30	—	4f	4f	—	—	6-5
P31	—	4g	4g	—	—	7-1
P32	—	—	col	—	—	7-2
P33	—	—	Dp	—	—	7-3
P34	—	—	—	—	—	7-4
P35	—	—	—	—	—	7-5

RXD-M33MD-S (X00-304X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
GENERAL MARKET	M	0-22														
MALAYSIA	I	0-71	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
AUSTRALIA	X															
U.K.	T	2-71														
EUROPE	E															

RXD-M33MD-L (X00-304X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
GENERAL MARKET	M	0-22														
KOREA	H	2-71	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
U.K.	T															

RXD-M33MD-N (X00-30XX-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
GENERAL MARKET	M	40-22														
U.K.	T	42-71	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
SHANGHAI	V2	52-10				YES	NO			220K	47 2W		L07-2758			

RXD-M33-S (X00-304X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
U.S.A.	K	0-11	NO	YES	NO	NO	YES	2A 125V	YES	22K	68 2W	YES	L07-2758	YES	YES	NO
CANADA	P															
GENERAL MARKET	M1	0-21			YES	YES	NO			51K	47 2W		L07-2805	NO		YES
MALAYSIA	I1															
GENERAL MARKET	M2	40-23														
AUSTRALIA	X1	40-71	YES	NO				T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
U.K.	T1															
EUROPE	E1	42-71			NO	NO	YES									
KOREA	H1															
SHANGHAI	V1	52-10				YES	NO		NO	220K	47 2W		L07-2758			

RXD-M33-L (X00-30XX-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
U.S.A.	K	40-11	NO	YES	NO	NO	YES	2A 125V	YES	22K	68 2W	YES	L07-2758	YES	YES	NO
CANADA	P															
GENERAL MARKET	M1	40-21			YES	YES	NO			51K	47 2W		L07-2805	NO		YES
MALAYSIA	I1															
GENERAL MARKET	M2	40-23														
AUSTRALIA	X1	40-71	YES	NO				T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
U.K.	T1															
EUROPE	E1	42-71														
KOREA	H1															
SHANGHAI	V1	52-10				YES	NO		NO	220K	47 2W		L07-2758			

RXD-M33-N (X00-304X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
GENERAL MARKET	M1	0-21			YES	YES	NO			51K	47 2W	NO	L07-2805	NO		YES
GENERAL MARKET	M2	0-23														
U.K.	T1		YES	NO				T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO
EUROPE	E1	2-71														

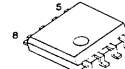
RXD-M33E-S/M33E-L/M33E-N (X00-304X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	C3	C10	CN3	D1	D10-13	F1	P1	R1	R3	R4	T1	W1,2	W5	WH3
EUROPE	E2	2-71	YES	NO	NO	NO	YES	T1AL 250V	NO	10K	82 2W	NO	L07-2858	YES	NO	NO

TA8409S



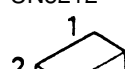
NJM4565M



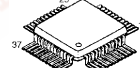
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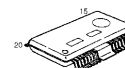
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MA142WA
UN5212

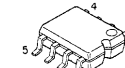
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BA5984FP



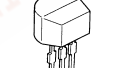
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HA12230NT

AK4550VT
BU1923F

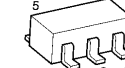
S-80840ANY



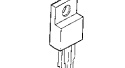
BA05T



HD74LV1G08A



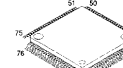
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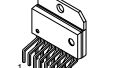
HN1C01F



CXD2662R



LM4766T



RXD-M33MD-S/M33MD-L/M33MD-N (4/4)

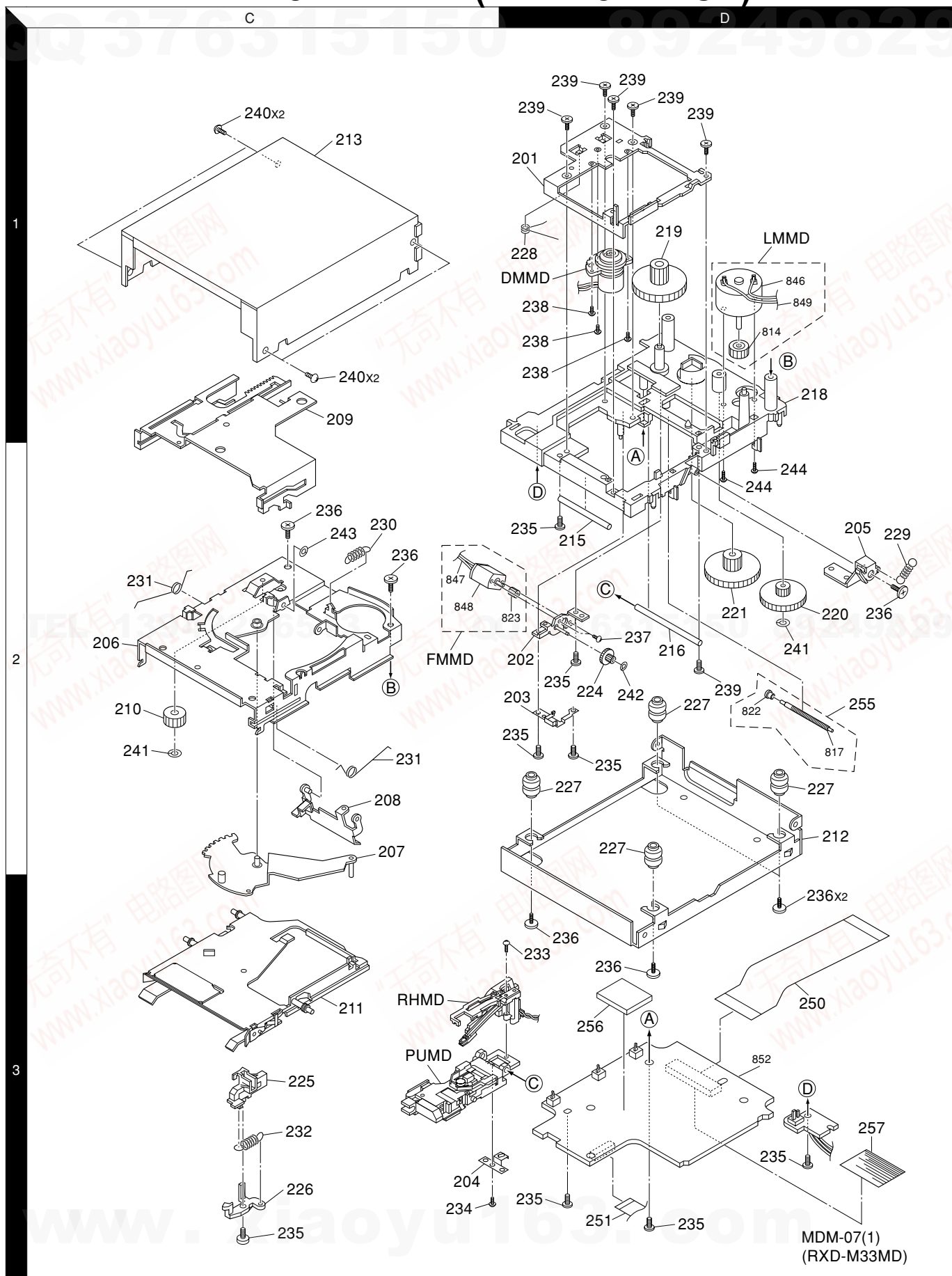
E



36

RXD-M33/M33MD

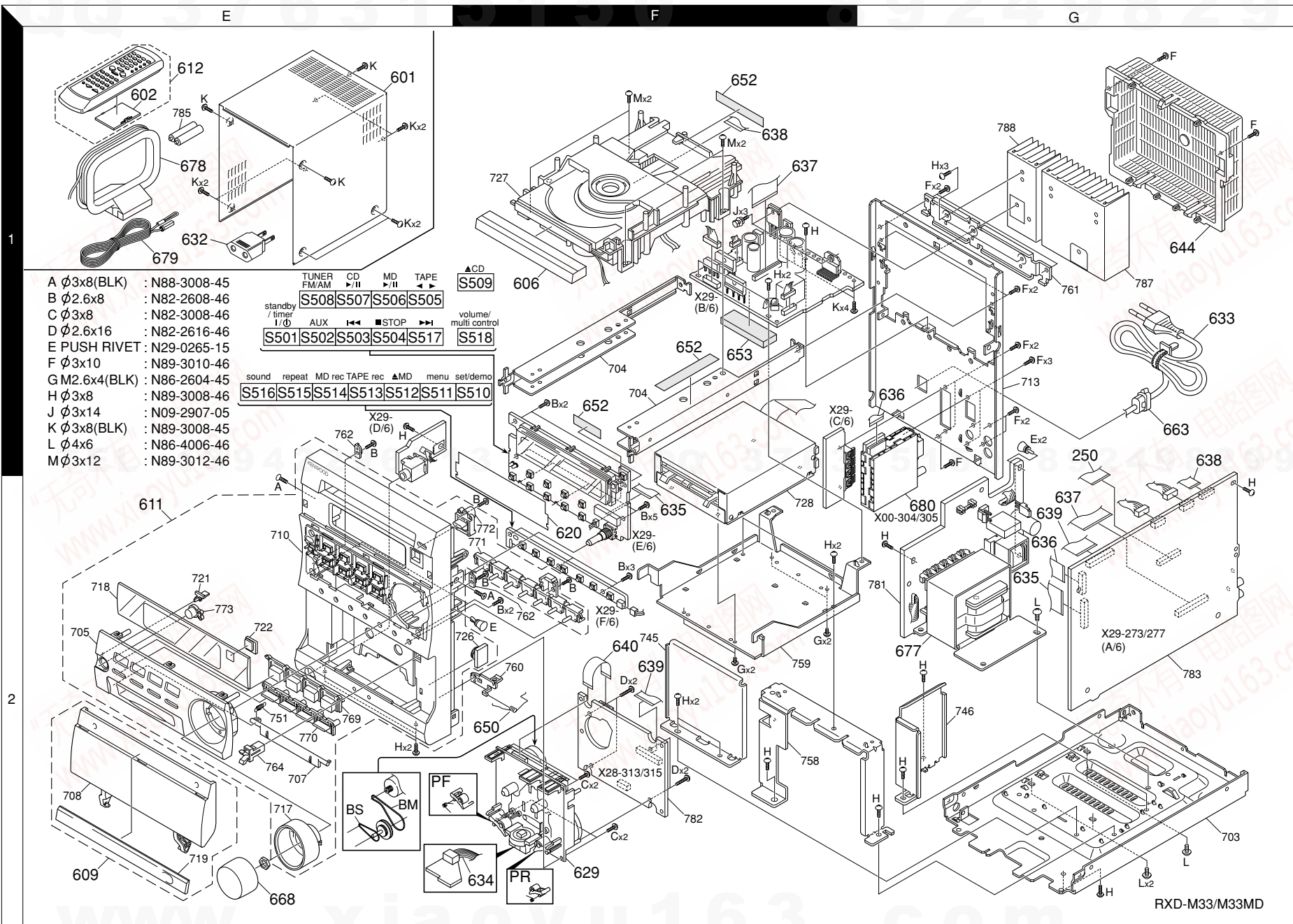
EXPLODED VIEW (MD MECHANISM)



Parts with exploded numbers larger than 700 are not supplied.

RXD-M33/M33MD

EXPLODED VIEW (UNIT)



* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RXD-M33MD-S/L/N						
601	1E	*	A01-3799-01	METALLIC CABINET	MIXTEH	S,L
601	1E	*	A01-3799-01	METALLIC CABINET	V2	N
601	1E	*	A01-3812-01	METALLIC CABINET	MT	N
602	1E	*	A09-1151-08	BATTERY COVER		
606	1F	*	A29-1126-03	PANEL (CD)	MIXTEH	S,L
606	1F	*	A29-1126-03	PANEL (CD)	V2	N
606	1F	*	A29-1126-03	PANEL (CD)	MT	N
609	2E	*	A53-2262-08	CASSETTE HOLDER ASSY	V2	N
609	2E	*	A53-2256-08	CASSETTE HOLDER ASSY	MIXTE	S
609	2E	*	A53-2258-08	CASSETTE HOLDER ASSY	MTH	L
609	2E	*	A53-2260-08	CASSETTE HOLDER ASSY	MT	N
611	2E	*	A60-2092-08	PANEL ASSY	MIX	S
611	2E	*	A60-2093-08	PANEL ASSY	TE	S
611	2E	*	A60-2094-08	PANEL ASSY	M	L
611	2E	*	A60-2095-08	PANEL ASSY	TH	L
611	2E	*	A60-2096-08	PANEL ASSY	M	N
611	2E	*	A60-2097-08	PANEL ASSY	T	N
611	2E	*	A60-2106-08	PANEL ASSY	V2	N
612	1E	*	A70-1491-05	REMOTE CONTROLLER ASSY	TEH	
612	1E	*	A70-1492-05	REMOTE CONTROLLER ASSY	MIXV2	
620	2F	*	B11-1530-04	COLOR FILTER		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	E	
-			B46-0310-03	WARRANTY CARD	T	
-			B46-0344-03	WARRANTY CARD	V2	
-			B58-0965-13	CAUTION CARD (T.XtypePL)	TX	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MIE	
-			B58-1546-03	CAUTION CARD	V2	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-		*	B60-4926-00	INSTRUCTION MANUAL (FR)	E	
-		*	B60-4927-00	INSTRUCTION MANUAL (GE)	E	
-		*	B60-4928-00	INSTRUCTION MANUAL (NE)	E	
-		*	B60-4929-00	INSTRUCTION MANUAL (IT)	E	
-		*	B60-4930-00	INSTRUCTION MANUAL (ES)	E	
-		*	B60-4931-00	INSTRUCTION MANUAL (EN)	IXT	
-		*	B60-4931-00	INSTRUCTION MANUAL (EN)	MT	
-		*	B60-5038-00	INSTRUCTION MANUAL (SC)	V2	
629	2F	*	D40-1716-05	CASSETTE MECHANISM ASSY		
BM	2E		D16-0741-08	BELT MAIN		
BS	2E		D16-0705-08	BELT SUB		
PF	2E		D14-0380-08	PINCH ROLLER FWD		
PR	2F		D14-0381-08	PINCH ROLLER RVS		
632	1E		E03-0115-05	AC PLUG ADAPTER	M	
633	1G		E30-2717-05	AC POWER CORD	X	
633	1G		E30-2824-15	AC POWER CORD	V2	
633	1G		E30-2829-05	AC POWER CORD	T	
633	1G		E30-2942-05	AC POWER CORD	IE	
633	1G		E30-2942-05	AC POWER CORD	M	
633	1G		E30-2950-05	AC POWER CORD	H	
634	2F		E35-2716-05	WIRING HARNESS (CAS HEAD)		
635	2F,2G	*	E35-2791-15	FLAT CABLE (21P)		
636	1G,2G	*	E35-2792-05	FLAT CABLE (15P)		
637	1F,2G	*	E35-2793-05	FLAT CABLE (27P)		

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

Y : PX(Far East,Hawaii)

T : England

E : Europe

G : Germany

V : China(Shanghai)

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

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S : Silver

L : Blue

N : Gold

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
638	1F,1G	*	E35-2794-15	FLAT CABLE (16P)		
639	2F,2G	*	E35-2825-05	FLAT CABLE (23P)		
640	2F	*	E35-2874-05	FLAT CABLE (12P)		
644	1G	*	F07-1728-02	COVER		
650	2F	*	G01-4246-04	TORSION COIL SPRING		
652	1F	*	G10-0536-04	NON-WOVEN FABRIC		
653	1F	*	G11-2795-04	CUSHION		
-		*	H10-7735-02	POLYSTYRENE FOAMED FIXTURE	MIXHV2	
-		*	H10-7736-02	POLYSTYRENE FOAMED FIXTURE	MIXHV2	
-		*	H10-7737-02	POLYSTYRENE FOAMED FIXTURE	TE	
-		*	H10-7738-02	POLYSTYRENE FOAMED FIXTURE	TE	
-		*	H12-3541-04	PACKING FIXTURE	MIXH	
-		*	H25-1642-04	PROTECTION BAG		
-		*	H25-1694-04	PROTECTION BAG	TEHV2	
-		*	H25-1695-04	PROTECTION BAG		
-		*	H25-1695-04	PROTECTION BAG		
-		*	H50-4005-14	ITEM CARTON CASE	MI	
-		*	H50-4006-04	ITEM CARTON CASE	T	
-		*	H50-4007-14	ITEM CARTON CASE	T	
-		*	H50-4008-14	ITEM CARTON CASE	E	
Δ 663	1G	*	J42-0083-05	POWER CORD BUSHING	V2	
Δ 663	1G	*	J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND (CD MECHA)		
668	2E	*	K29-7907-04	KNOB		
Δ 677	2G	*	L07-2964-05	POWER TRANSFORMER	TEH	
Δ 677	2G	*	L07-2967-05	POWER TRANSFORMER	IX	
Δ 677	2G	*	L07-2969-05	POWER TRANSFORMER	M	
Δ 677	2G	*	L07-2970-05	POWER TRANSFORMER	V2	
678	1F		T90-0852-05	LOOP ANTENNA		
679	1F	*	T90-0877-05	LEAD WIRE ANTENNA		
680	2G	*	W02-2783-05	TUNER ASSY	MIXV2	
680	2G	*	W02-2784-05	TUNER ASSY	TEH	
RXD-M33-S/L/N (T,E,H,E2)						
601	1E	*	A01-3799-01	METALLIC CABINET	E2	S,L
601	1E	*	A01-3799-01	METALLIC CABINET	H1T1E1	S,L
601	1E	*	A01-3812-01	METALLIC CABINET	T1E1E2	N
602	1E	*	A09-1151-08	BATTERY COVER		
606	1F	*	A29-1126-03	PANEL	E2	S,L
606	1F	*	A29-1126-03	PANEL	H1T1E1	S,L
606	1F	*	A29-1146-03	PANEL	T1E1E2	N
609	2E	*	A53-2257-08	CASSETTE HOLDER ASSY	E2	S
609	2E	*	A53-2257-08	CASSETTE HOLDER ASSY	H1T1E1	S
609	2E	*	A53-2259-08	CASSETTE HOLDER ASSY	E2	L
609	2E	*	A53-2259-08	CASSETTE HOLDER ASSY	H1T1E1	L
609	2E	*	A53-2261-08	CASSETTE HOLDER ASSY	T1E1E2	N
611	2E	*	A60-2100-08	PANEL ASSY	E2	S
611	2E	*	A60-2100-08	PANEL ASSY	H1T1E1	S

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PARTS LIST

RXD-M33/M33MD

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3

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611	2E	*	A60-2101-08	PANEL ASSY	E2	L
611	2E	*	A60-2101-08	PANEL ASSY	H1T1E1	L
611	2E	*	A60-2105-08	PANEL ASSY	T1E1E2	N
612	1E	*	A70-1494-05	REMOTE CONTROLLER ASSY		
620	2F	*	B11-1530-04	COLOR FILTER		
-			B46-0310-03	WARRANTY CARD	T1E1E2	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	T1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	E1E2	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-		*	B60-4976-00	INSTRUCTION MANUAL (EN)	T1E1E2	
-		*	B60-4977-00	INSTRUCTION MANUAL (FR)	E1	
-		*	B60-4978-00	INSTRUCTION MANUAL (GE)	E1	
-		*	B60-4979-00	INSTRUCTION MANUAL (NE)	E1	
-		*	B60-4980-00	INSTRUCTION MANUAL (IT)	E1	
-		*	B60-4981-00	INSTRUCTION MANUAL (ES)	E1	
-		*	B60-4984-00	INSTRUCTION MANUAL (PL)	E2	
-		*	B60-4985-00	INSTRUCTION MANUAL (HU)	E2	
-		*	B60-4986-00	INSTRUCTION MANUAL (CZ)	E2	
-		*	B60-4987-00	INSTRUCTION MANUAL (RU)	E2	
629	2F	*	D40-1716-05	CASSETTE MECHANISM ASSY		
BM	2E		D16-0741-08	BELT MAIN		
BS	2E		D16-0705-08	BELT SUB		
PF	2E		D14-0380-08	PINCH ROLLER FWD		
PR	2F		D14-0381-08	PINCH ROLLER RVS		
Δ	1G		E30-2829-05	AC POWER CORD	T1	
Δ	1G		E30-2942-05	AC POWER CORD	E1E2	
633	1G		E30-2950-05	AC POWER CORD	H1	
634	2F		E35-2716-05	WIRING HARNESS		
635	2F,2G	*	E35-2791-15	FLAT CABLE (21P)		
636	1G,2G	*	E35-2792-05	FLAT CABLE (15P)		
637	1F,2G	*	E35-2793-05	FLAT CABLE (27P)		
638	1F,1G	*	E35-2794-15	FLAT CABLE (16P)		
639	2F,2G	*	E35-2825-05	FLAT CABLE (23P)		
640	2F	*	E35-2874-05	FLAT CABLE (12P)		
644	1G	*	F07-1728-02	COVER		
650	2F	*	G01-4246-04	TORSION COIL SPRING		
652	1F	*	G10-0536-04	NON-WOVEN FABRIC		
-		*	H10-7735-02	POLYSTYRENE FOAMED FIXTURE	H1	
-		*	H10-7736-02	POLYSTYRENE FOAMED FIXTURE	H1	
-		*	H10-7737-02	POLYSTYRENE FOAMED FIXTURE	T1E1E2	
-		*	H10-7738-02	POLYSTYRENE FOAMED FIXTURE	T1E1E2	
-		*	H12-3541-04	PACKING FIXTURE	H1	
-		*	H25-1642-04	PROTECTION BAG		
-		*	H25-1694-04	PROTECTION BAG		
-		*	H50-4009-14	ITEM CARTON CASE	E1	S
-		*	H50-4010-04	ITEM CARTON CASE	E1	L
-		*	H50-4076-14	ITEM CARTON CASE	E1	M
-		*	H50-4077-14	ITEM CARTON CASE	T1	S
-		*	H50-4078-04	ITEM CARTON CASE	T1	L
-		*	H50-4079-14	ITEM CARTON CASE	T1	M
-		*	H50-4080-14	ITEM CARTON CASE	E2	S
-		*	H50-4081-04	ITEM CARTON CASE	E2	L
-		*	H50-4110-14	ITEM CARTON CASE	E2	N

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4

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-		*	H60-1052-14	OUTER CARTON CASE	H1	S
-		*	H60-1053-04	OUTER CARTON CASE	H1	L
Δ 663	1G	*	J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND (CD MECHA)		
668	2E	*	K29-7907-04	KNOB		
Δ 677	2G	*	L07-2964-05	POWER TRANSFORMER		
678	1F		T90-0852-05	LOOP ANTENNA		
679	1F	*	T90-0877-05	LEAD WIRE ANTENNA		
680	2G	*	W02-2781-05	TUNER ASSY		
680	2G	*	W02-2784-05	TUNER ASSY		
RXD-M33-S/L/N (K,P,M,I,X,M2,V2)						
601	1E	*	A01-3799-01	METALLIC CABINET	I1X1V1	S,L
601	1E	*	A01-3799-01	METALLIC CABINET	KPM1M2	S,L
601	1E	*	A01-3812-01	METALLIC CABINET	M1M2	N
602	1E	*	A09-1151-08	BATTERY COVER		
606	1F	*	A29-1126-03	PANEL	I1X1V1	S,L
606	1F	*	A29-1126-03	PANEL	KPM1M2	S,L
606	1F	*	A29-1146-03	PANEL	M1M2	N
609	2E	*	A53-2257-08	CASSETTE HOLDER ASSY	KP	S
609	2E	*	A53-2257-08	CASSETTE HOLDER ASSY	M1I1X1	S
609	2E	*	A53-2259-08	CASSETTE HOLDER ASSY	I1X1V1	L
609	2E	*	A53-2259-08	CASSETTE HOLDER ASSY	KPM1M2	L
609	2E	*	A53-2261-08	CASSETTE HOLDER ASSY	M1M2	N
611	2E	*	A60-2098-08	PANEL ASSY	KP	S
611	2E	*	A60-2099-08	PANEL ASSY	M1I1X1	S
611	2E	*	A60-2101-08	PANEL ASSY	KP	L
611	2E	*	A60-2102-08	PANEL ASSY	M1I1X1	L
611	2E	*	A60-2102-08	PANEL ASSY	M2	L
611	2E	*	A60-2104-08	PANEL ASSY	M1M2	N
611	2E	*	A60-2107-08	PANEL ASSY	V1	L
612	1E	*	A70-1493-05	REMOTE CONTROLLER ASSY		
620	2F	*	B11-1530-04	COLOR FILTER		
-			B46-0096-53	WARRANTY CARD	X1	
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B46-0328-03	WARRANTY CARD	K	
-			B46-0344-03	WARRANTY CARD	V1	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0964-13	CAUTION CARD (UL)	K	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	M1M2I1	
-			B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B58-1546-03	CAUTION CARD	V1	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-			B58-1674-03	CAUTION CARD (P1,PRA,A4,1)	K	
-		*	B60-4976-00	INSTRUCTION MANUAL (EN)		
-		*	B60-4977-00	INSTRUCTION MANUAL (FR)	P	
-		*	B60-4981-00	INSTRUCTION MANUAL (ES)	M1	
-		*	B60-4982-00	INSTRUCTION MANUAL (AR)	M1	
-		*	B60-4983-00	INSTRUCTION MANUAL (TC)	M1	
-		*	B60-5039-00	INSTRUCTION MANUAL (SC)	V1	
629	2F	*	D40-1716-05	CASSETTE MECHANISM ASSY		

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PARTS LIST

RXD-M33/M33MD

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5

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BM	2E		D16-0741-08	BELT MAIN		
BS	2E		D16-0705-08	BELT SUB		
PF	2E		D14-0380-08	PINCH ROLLER FWD		
PR	2F		D14-0381-08	PINCH ROLLER RVS		
△ 632	1E		E03-0115-05	AC PLUG ADAPTER	M1M2	
△ 633	1G		E30-2717-05	AC POWER CORD	X1	
△ 633	1G		E30-2824-15	AC POWER CORD	V1	
△ 633	1G		E30-2941-05	AC POWER CORD	KP	
△ 633	1G		E30-2942-05	AC POWER CORD	M1M211	
634	2F		E35-2716-05	WIRING HARNESS		
635	2F,2G	*	E35-2791-15	FLAT CABLE (21P)		
636	1G,2G	*	E35-2792-05	FLAT CABLE (15P)		
637	1F,2G	*	E35-2793-05	FLAT CABLE (27P)		
638	1F,1G	*	E35-2794-15	FLAT CABLE (16P)		
639	2F,2G	*	E35-2825-05	FLAT CABLE (23P)		
640	2F	*	E35-2874-05	FLAT CABLE (12P)		
644	1G	*	F07-1728-02	COVER		
650	2F	*	G01-4246-04	TORSION COIL SPRING		
652	1F	*	G10-0536-04	NON-WOVEN FABRIC		
-		*	H10-7735-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7736-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H12-3541-04	PACKING FIXTURE		
-		*	H25-1642-04	PROTECTION BAG	KPX1	
-		*	H25-1694-04	PROTECTION BAG		
-		*	H25-1695-04	PROTECTION BAG	M1M211	
△ 663	1G	*	J42-0083-05	POWER CORD BUSHING	V1	
△ 663	1G	*	J42-0349-05	POWER CORD BUSHING		
-		*	J61-0307-05	WIRE BAND (CD MECKA)		
668	2E	*	K29-7907-04	KNOB		
△ 677	2G	*	L07-2963-05	POWER TRANSFORMER	KP	
△ 677	2G	*	L07-2966-05	POWER TRANSFORMER	M111	
△ 677	2G	*	L07-2967-05	POWER TRANSFORMER	X1	
△ 677	2G	*	L07-2971-05	POWER TRANSFORMER	V1	
△ 677	2G	*	L07-2988-05	POWER TRANSFORMER	M2	
678	1F		T90-0852-05	LOOP ANTENNA		
679	1F	*	T90-0877-05	LEAD WIRE ANTENNA		
680	2G	*	W02-2780-05	TUNER ASSY		
680	2G	*	W02-2783-05	TUNER ASSY		
POWER SUPPLY UNIT (X00-3000-25)						
CN1			E40-8386-05	PIN ASSY	M111M2	
△ F3			F06-1022-05	FUSE (SEMKO) (250V T1AL)	M111M2	
CN2 ,3			J13-0075-05	FUSE CLIP	M111M2	
△ S1			S62-0001-05	SLIDE SWITCH	M111M2	

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6

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POWER SUPPLY UNIT (X00-304X/305X-XX)						
C1			CE04LW1E332M	ELECTRO 3300UF 25WV		
C2			CQ93FMG1H563J	MYLAR 0.056UF J		
C3			CK45FB1H102K	CERAMIC 1000PF K	M111M2	569
C3			CK45FB1H102K	CERAMIC 1000PF K	X1	8
C3			CK45FB1H102K	CERAMIC 1000PF K		
C4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C9			CQ93FMG1H473J	MYLAR 0.047UF J		
C10			CE04KW1H010M	ELECTRO 1.0UF 50WV	KP	8
CN1			E40-4245-05	PIN ASSY		
CN3			E40-4428-05	PIN ASSY	M111M2	8
P1			E23-0378-05	TERMINAL	KP	8
W1 ,2			E31-0001-00	JUMPER WIRE		9
W1 ,2			E31-0002-00	JUMPER WIRE		56
W1 ,2			E31-0002-00	JUMPER WIRE	KPX1	8
W5			E31-0002-00	JUMPER WIRE	KP	8
△ F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)		56
△ F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)	M111M2	8
△ F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)	X1	8
△ F1			F50-0069-05	FUSE (5X20)	KP	8
△ F1			F50-0108-05	FUSE (5X20) (250V T1AL)		9
CN4 ,5			J13-0075-05	FUSE CLIP		
△ T1			L07-2758-05	POWER TRANSFORMER	KP	9
△ T1			L07-2758-05	POWER TRANSFORMER		8
△ T1			L07-2805-05	POWER TRANSFORMER	M111M2	8
△ T1			L07-2858-05	POWER TRANSFORMER	X1	56
△ T1			L07-2858-05	POWER TRANSFORMER		8
R1			RD14BB2C103J	RD 10K J 1/6W		56
R1			RD14BB2C103J	RD 10K J 1/6W	X1	8
R1			RD14BB2C223J	RD 22K J 1/6W	KP	8
R1			RD14BB2C224J	RD 220K J 1/6W		9
R1			RD14BB2C513J	RD 51K J 1/6W	M111M2	8
R3			RS14KB3D820J	FL-PROOF RS 82 J 2W		
△ R4			R92-1844-05		KP	
△ K1			S76-0102-05	MAGNETIC RELAY		
△ D1			S1ZB20(4101)	DIODE DIODE	M111M2	9
△ D1			S1ZB20(4101)	DIODE DIODE		8
D2 -7			HSS104A	DIODE		
D2 -7			1SS133	DIODE		
D8			S5688B	DIODE		
△ D9			RB721Q	DIODE		56
△ D10 -13			HSS104A	DIODE		8
△ D10 -13			HSS104A	DIODE	KPX1	56
△ D10 -13			1SS133	DIODE		8
△ D10 -13			1SS133	DIODE	KPX1	8
IC1			BA05T	ANALOGUE IC		
Q1			DTC113ZSA	DIGITAL TRANSISTOR		
Q1			UN4219	DIGITAL TRANSISTOR		
Q2			2SA1175(F,E)	TRANSISTOR		
Q2			2SA933AS(Q,R)	TRANSISTOR		

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7

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RECORD/PLAYBACK UNIT (X28-313X/315X-XX)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CC73GCH1H681J CQ93FMG1H822J CQ93FMG1H393J CE04LW1H100M CE04LW1HR22M	CHIP C 680PF J MYLAR 8200PF J MYLAR 0.039UF J ELECTRO 10UF 50WV ELECTRO 0.22UF 50WV		
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 ,20			CE04LW1H4R7M CE04LW1H100M CC45FSL1H271J CC73GCH1H221J CE04LW1H4R7M	ELECTRO 4.7UF 50WV ELECTRO 10UF 50WV CERAMIC 270PF J CHIP C 220PF J ELECTRO 4.7UF 50WV		
C21 ,22 C23 ,24 C23 ,24 C100 C101			CK73GB1H472K CC73GCH1H221J CC73GCH1H221J CE04PW1A101M CE04PW1H010M	CHIP C 4700PF K CHIP C 220PF J CHIP C 220PF J ELECTRO 100UF 10WV ELECTRO 1UF 50WV	TEH	6 5
C102 C103 C104 C105 C106			CE04PW1H4R7M CE04PW1E470M CE04PW1H4R7M CE04PW1H010M CE04PW1H100M	ELECTRO 4.7UF 50WV ELECTRO 47UF 25WV ELECTRO 4.7UF 50WV ELECTRO 1UF 50WV ELECTRO 10UF 50WV		
C107,108 C109 C110 C111 C114			CQ93FMG1H472J CQ93FMG1H183J CE04PW1E470M CQ93HP2A822J CE04PW1A101M	MYLAR 4700PF J MYLAR 0.018UF J ELECTRO 47UF 25WV MYLAR 8200PF J ELECTRO 100UF 10WV		
C115			CQ93FMG1H153J	MYLAR 0.015UF J		
CN1 CN2 CN3			E40-4910-05 E40-4937-05 E40-3250-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY		
E1			J11-0808-05	WIRE CLAMPER		
L1 ,2 L3 L4		*	L40-1035-20 L32-1038-05 L40-1001-82	SMALL FIXED INDUCTOR(10MH,J) BIAS OSCILATING COIL SMALL FIXED INDUCTOR(10UH)		
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10			RK73GB1J224J RK73GB1J103J RK73GB1J512J RK73GB1J752J RK73GB1J472J	CHIP R 220K J 1/16W CHIP R 10K J 1/16W CHIP R 5.1K J 1/16W CHIP R 7.5K J 1/16W CHIP R 4.7K J 1/16W		
R11 ,12 R13 ,14 R15 ,16 R17 ,18 R19 ,20			RK73GB1J272J RK73GB1J432J RK73GB1J153J RK73GB1J103J RK73GB1J473J	CHIP R 2.7K J 1/16W CHIP R 4.3K J 1/16W CHIP R 15K J 1/16W CHIP R 10K J 1/16W CHIP R 47K J 1/16W		
R21 ,24 R25 ,26 R27 ,28 R27 ,28 R100			RK73GB1J105J RK73GB1J102J RD14BB2C221J RD14BB2C221J RD14NB2E4R7J	CHIP R 1.0M J 1/16W CHIP R 1.0K J 1/16W RD 220 J 1/6W RD 220 J 1/6W RD 4.7 J 1/4W	HTE	6 5
R101			RK73GB1J223J	CHIP R 22K J 1/16W		

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8

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R102 R103 R104,105 R107 R109			RK73GB1J102J RK73GB1J101J RK73GB1J103J RK73GB1J103J RK73GB1J332J	CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 10K J 1/16W CHIP R 10K J 1/16W CHIP R 3.3K J 1/16W		
R110 R111,112 R113 R118,119 R120	⚠		RK73GB1J394J RK73GB1J103J RD14NB2E100J RK73GB1J473J RK73GB1J222J	CHIP R 390K J 1/16W CHIP R 10K J 1/16W RD 10 J 1/4W CHIP R 47K J 1/16W CHIP R 2.2K J 1/16W		
R123 R125 VR1 ,2	⚠		RD14NB2E1R0J RK73GB1J473J R12-6013-05	RD 1 J 1/4W CHIP R 47K J 1/16W TRIMMING POT.(330K)		
D1 ,2 D1 ,2 D4 IC1 Q1 ,2	⚠		HSS104A 1SS133 S5688B(TPB5) HA12230NT 2SB1424(Q,R)	DIODE DIODE DIODE ANALOGUE IC TRANSISTOR		
Q3 Q3 Q3 Q4 Q4			DTC143TSA UN4216 DTC124ESA KRC103M UN4212	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		9 568
Q5 -7 Q5 -7 Q8 Q8 Q9 ,10	⚠		DTC124EUA UN5212 KTC3205 2SC3940A(R,S) KTC3199(Y,GR)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 ,10 Q15 -18 Q19 Q19			2SC2785(F,E) RK7002 DTC124EUA UN5212	TRANSISTOR FET DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
CONTROL CIRCUIT UNIT (X29-273X/277X-XX)						
D510 D511			B30-2541-05 B30-2546-05	LED(GRN3(80)) LED(RED3(80))		
C1 ,2 C3 C4 C5 ,6 C7 ,8			CE04KW1H2R2M CE04HW1E100M CE04LW1H220M CK45FB1H102K CC45FSL1H271J	ELECTRO 2.2UF 50WV NP-ELEC 10UF 25WV ELECTRO 22UF 50WV CERAMIC 1000PF K CERAMIC 270PF J		
C10 C11 C11 C11 C11			CE04LW1H4R7M CE04KW1A221M CE04KW1A221M CE04LW1A221M CE04LW1A221M	ELECTRO 4.7UF 50WV ELECTRO 220UF 10WV ELECTRO 220UF 10WV ELECTRO 220UF 10WV ELECTRO 220UF 10WV	HTE MIX	6 5 89 5
C12 C13 ,14 C17 ,18 C19 ,20 C23			CQ93FMG1H124J CK45FB1H221K CK45FB1H471K CE04HW1E100M CF92FV1H334J	MYLAR 0.12UF J CERAMIC 220PF K CERAMIC 470PF K NP-ELEC 10UF 25WV MF-C 0.33UF J	KP	8
C23 C23		*	CF92FV1H684J C91-1579-05	MF-C 0.68UF J METALIZED FILM CAPACITOR	KP	569 8

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RXD-M33/M33MD

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9

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C23		*	C91-1583-05	METALIZED FILM CAPACITOR		56
C23, 24			CF92FV1H684J	MF-C 0.68UF	J	8
C23, 24			CF92FV1H684J	MF-C 0.68UF	J	8
C23, 24		*	C91-1583-05	METALIZED FILM CAPACITOR	M111M2	8
C23, 24		*	C91-1583-05	METALIZED FILM CAPACITOR	X1	8
C24			CF92FV1H684J	MF-C 0.68UF	J	569
C24		*	C91-1583-05	METALIZED FILM CAPACITOR		56
C25, 26			CK45FB1H471K	CERAMIC 470PF	K	
C27, 28			CQ93FMG1H123J	MYLAR 0.012UF	J	
C30			CF92FV1H334J	MF-C 0.33UF	J	8
C30			CF92FV1H684J	MF-C 0.68UF	J	569
C30		*	C91-1579-05	METALIZED FILM CAPACITOR	KP	8
C30		*	C91-1583-05	METALIZED FILM CAPACITOR		56
C30, 31			CF92FV1H684J	MF-C 0.68UF	J	8
C30, 31			CF92FV1H684J	MF-C 0.68UF	J	8
C30, 31		*	C91-1583-05	METALIZED FILM CAPACITOR	M111M2	8
C30, 31		*	C91-1583-05	METALIZED FILM CAPACITOR	X1	8
C31			CF92FV1H684J	MF-C 0.68UF	J	569
C31		*	C91-1583-05	METALIZED FILM CAPACITOR		56
C32, 33			CQ93FMG1H223J	MYLAR 0.022UF	J	
C34			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C35, 36			CC45FSL1H470J	CERAMIC 47PF	J	
C37			CQ93FMG1H473J	MYLAR 0.047UF	J	
C96			CQ93FMG1H104J	MYLAR 0.10UF	J	
C98			CQ93FMG1H104J	MYLAR 0.10UF	J	
C101, 102			CE04KW1V222M	ELECTRO 2200UF	35WV	
C103		*	CE04PW1J470M	ELECTRO 47UF	63WV	
C104			CE04PW1H470M	ELECTRO 47UF	50WV	
C106			CE04LW1V470M	ELECTRO 47UF	35WV	
C107			CK45FB1H102K	CERAMIC 1000PF	K	
C109			CE04LW1H100M	ELECTRO 10UF	50WV	
C110			CE04LW1E470M	ELECTRO 47UF	25WV	
C112			CE04LW1E470M	ELECTRO 47UF	25WV	
C114			CE04LW1E470M	ELECTRO 47UF	25WV	
C115			CE04LW2A101M	ELECTRO 100UF	100WV	
C121			CC45FSL1H101J	CERAMIC 100PF	J	
C122			CE04LW1E222M	ELECTRO 2200UF	25WV	
C123			CE04LW1C222M	ELECTRO 2200UF	16WV	
C124, 125			CQ93FMG1H104J	MYLAR 0.10UF	J	
C126			CK45FE2H103P	CERAMIC 0.010UF	P	
C203			CE04KW1A101M	ELECTRO 100UF	10WV	
C205, 206			CE04KW1A101M	ELECTRO 100UF	10WV	
C211, 212			CQ93FMG1H104J	MYLAR 0.10UF	J	
C213			CC45FSL1H331J	CERAMIC 330PF	J	
C214			CC45FCH1H221J	CERAMIC 220PF	J	
C215			CK45FB1H471K	CERAMIC 470PF	K	
C216, 217			CQ93FMG1H223J	MYLAR 0.022UF	J	
C218			CQ93FMG1H333J	MYLAR 0.033UF	J	
C221			CE04KW1A101M	ELECTRO 100UF	10WV	
C223			CF92FV1H334J	MF-C 0.33UF	J	
C223		*	C91-1579-05	METALIZED FILM CAPACITOR		568
C224			CC45FCH1H100D	CERAMIC 10PF	D	5
C224			CC45FCH1H100D	CERAMIC 10PF	D	9
C225			CC45FCH1H180J	CERAMIC 18PF	J	5
C225			CC45FCH1H180J	CERAMIC 18PF	J	9

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10

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C226			CE04LW1H010M	ELECTRO 1.0UF	50WV	
C227			CK45FB1H222K	CERAMIC 2200PF	K	
C228			CQ93FMG1H223J	MYLAR 0.022UF	J	
C229			CQ93FMG1H472J	MYLAR 4700PF	J	
C230			CK45FB1H222K	CERAMIC 2200PF	K	
C231			CQ93FMG1H102J	MYLAR 1000PF	J	
C232, 233			CQ93FMG1H223J	MYLAR 0.022UF	J	
C234			CF92FV1H564J	MF-C 0.56UF	J	
C234		*	C91-1582-05	METALIZED FILM CAPACITOR		568
C235			CQ93FMG1H122J	MYLAR 1200PF	J	
C240			CE04KW1A101M	ELECTRO 100UF	10WV	
C241			CE04LW1HR33M	ELECTRO 0.33UF	50WV	
C242, 243			CC45FCH1H100D	CERAMIC 10PF	D	
C242, 243			CC45FCH1H100D	CERAMIC 10PF	D	
C242, 243			CC45FCH1H560J	CERAMIC 56PF	J	
C242, 243			CC45FCH1H560J	CERAMIC 56PF	J	
C244			CK45FB1H102K	CERAMIC 1000PF	K	
C245			CE04LW1E470M	ELECTRO 47UF	25WV	
C246			CK45FB1H102K	CERAMIC 1000PF	K	
C247			CQ93FMG1H104J	MYLAR 0.10UF	J	
C248			CC45FCH1H470J	CERAMIC 47PF	J	
C250			CQ93FMG1H183J	MYLAR 0.018UF	J	
C251			CK45FB1H332K	CERAMIC 3300PF	K	
C252			CQ93FMG1H223J	MYLAR 0.022UF	J	
C254			CC45FCH1H101J	CERAMIC 100PF	J	
C255			CQ93FMG1H223J	MYLAR 0.022UF	J	
C256			CC45FSL1H221J	CERAMIC 220PF	J	
C257, 258			CK45FB1H471K	CERAMIC 470PF	K	
C259			CQ93FMG1H104J	MYLAR 0.10UF	J	
C261, 262			CC45FCH1H120J	CERAMIC 12PF	J	
C263, 264			CC45FCH1H150J	CERAMIC 15PF	J	
C266			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C269			CE04PW1H100M	ELECTRO 10UF	50WV	
C271, 272			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C273, 274			CC45FCH1H050C	CERAMIC 5.0PF	C	
C275, 276			CQ93FMG1H562J	MYLAR 5600PF	J	
C277, 278			CQ93FMG1H122J	MYLAR 1200PF	J	
C279, 280			CC45FCH1H101J	CERAMIC 100PF	J	
C281, 282			CK45FB1H152K	CERAMIC 1500PF	K	
C283, 284			CC45FCH1H470J	CERAMIC 47PF	J	
C285, 286			CE04KW1A101M	ELECTRO 100UF	10WV	
C290			CC45FCH1H270J	CERAMIC 27PF	J	
C291			CE04KW1A101M	ELECTRO 100UF	10WV	
C295			CC45FCH1H390J	CERAMIC 39PF	J	
C297			CC45FCH1H101J	CERAMIC 100PF	J	
C297		*	CC45FCH1H101J	CERAMIC 100PF	J	
C298			CE04LW1A101M	ELECTRO 100UF	10WV	
C299			CE04PW1A471M	ELECTRO 470UF	10WV	
C501, 502			CC45FSL1H221J	CERAMIC 220PF	J	
C503			CE04RW1C220M	ELECTRO 22UF	16WV	
C504, 505			CE04RW1H010M	ELECTRO 1.0UF	50WV	
C506			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C507			CC45FSL1H101J	CERAMIC 100PF	J	
C508			CC45FSL1H100D	CERAMIC 10PF	D	
C509			CC45FSL1H470J	CERAMIC 47PF	J	

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RXD-M33/M33MD

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11

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C511			CE04RW1E470M	ELECTRO 47UF 25WV		
C512			CC45FCH1H470J	CERAMIC 47PF J		
C514			CE04RW1H330M	ELECTRO 33UF 50WV		
C515			CE04RW1V2R2M	ELECTRO 2.2UF 35WV		
C515			CE04RW1V2R2M	ELECTRO 2.2UF 35WV	HTE	6 5
C516			CC45FSL1H271J	CERAMIC 270PF J		6
C516			CC45FSL1H271J	CERAMIC 270PF J	HTE	5
C517			CK45FF1H103Z	CERAMIC 0.010UF Z		6
C517			CK45FF1H103Z	CERAMIC 0.010UF Z	HTE	5
C518			CK45FB1H561K	CERAMIC 560PF K		6
C518			CK45FB1H561K	CERAMIC 560PF K	HTE	5
C519			CE04RW0J470M	ELECTRO 47UF 6.3WV		6
C519			CE04RW0J470M	ELECTRO 47UF 6.3WV	HTE	5
C520			CK45FF1H103Z	CERAMIC 0.010UF Z		6
C520			CK45FF1H103Z	CERAMIC 0.010UF Z	HTE	5
C521,522			CC45FCH1H270J	CERAMIC 27PF J		6
C521,522			CC45FCH1H270J	CERAMIC 27PF J	HTE	5
C523			CC45FSL1H101J	CERAMIC 100PF J		6
C523			CC45FSL1H101J	CERAMIC 100PF J	HTE	5
C540		*	CE04RW1H220M	ELECTRO 22UF 50WV		
C541			CC45FSL1H100D	CERAMIC 10PF D		
C601,602			CC45FSL1H221J	CERAMIC 220PF J		
C603,606			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C607,608			C90-3958-05	ELECTRO 3.3UF 50WV		
C607,608			C90-3958-05	ELECTRO 3.3UF 50WV	V2	5 9
C609,610			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C611,612			CC45FSL1H470J	CERAMIC 47PF J		5
C611,612			CC45FSL1H470J	CERAMIC 47PF J	V2	9
C615,616			CC45FSL1H101J	CERAMIC 100PF J		5
C615,616			CC45FSL1H101J	CERAMIC 100PF J	V2	9
C617,618			CC45FSL1H101J	CERAMIC 100PF J		
C619,620			CC45FSL1H030C	CERAMIC 3.0PF C		
C621,622			CE04KW1H100M	ELECTRO 10UF 50WV		
C623,624			CQ93FMG1H153J	MYLAR 0.015UF J		
C625,626			CF92FV1H154J	MF-C 0.15UF J		568
C625,626		*	C91-1575-05	METALIZED FILM CAPACITOR		
C627-630			CQ93FMG1H104J	MYLAR 0.10UF J		
C631,632			CQ93FMG1H683J	MYLAR 0.068UF J		
C633,634			CQ93FMG1H272J	MYLAR 2700PF J		
C635-638			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C639,640			CC45FSL1H101J	CERAMIC 100PF J		
C643,644			CC45FSL1H221J	CERAMIC 220PF J		
C645			C90-3959-05	ELECTRO 100UF 10WV		
C646			CE04KW1H100M	ELECTRO 10UF 50WV		
C648,649			CE04KW1H100M	ELECTRO 10UF 50WV		
C650			CC45FSL1H030C	CERAMIC 3.0PF C		6
C650			CC45FSL1H030C	CERAMIC 3.0PF C	HTE	5
C651,652			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		5
C651,652			CE04KW1H4R7M	ELECTRO 4.7UF 50WV	V2	5
C661			CE04LW1A101M	ELECTRO 100UF 10WV		
C661			CE04LW1A101M	ELECTRO 100UF 10WV	V2	9
C663			CE04LW1A101M	ELECTRO 100UF 10WV		68
C663			CE04LW1A101M	ELECTRO 100UF 10WV	V1	9
C664			CE04LW1A101M	ELECTRO 100UF 10WV		5
C664			CE04LW1A101M	ELECTRO 100UF 10WV	V2	9

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12

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C665			CE04LW0J331M	ELECTRO 330UF 6.3WV		5
C665			CE04LW0J331M	ELECTRO 330UF 6.3WV	V2	9
C701			CE04EW0J102M	ELECTRO 1000UF 6.3WV		
C702			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C703			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C704			CK45FF1H103Z	CERAMIC 0.010UF Z		
C705			CE04LW1A101M	ELECTRO 100UF 10WV		
C706			CK45FB1H102K	CERAMIC 1000PF K		
C707			CC45FSL1H680J	CERAMIC 68PF J		
C708			CC45FCH1H220J	CERAMIC 22PF J		
C709			CC45FCH1H180J	CERAMIC 18PF J		
C711-716			CK45FF1H103Z	CERAMIC 0.010UF Z		
CN1		*	E40-8487-05	FLAT CABLE CONNECTOR		
CN2			E40-3253-05	PIN ASSY		
CN3			E40-3249-05	PIN ASSY		
CN4			E40-3252-05	PIN ASSY		
CN21			E40-8328-05	FLAT CABLE CONNECTOR		
CN22			E40-3250-05	PIN ASSY		
CN23		*	E40-4976-05	PIN ASSY		
CN26		*	E40-8793-05	PIN ASSY		
CN61			E40-8484-05	FLAT CABLE CONNECTOR		
CN62			E40-8485-05	FLAT CABLE CONNECTOR		
CN63			E40-8481-05	FLAT CABLE CONNECTOR		
CN64			E40-8461-05	FLAT CABLE CONNECTOR		
CN64			E40-8461-05	FLAT CABLE CONNECTOR		
CN65		*	E40-8487-05	FLAT CABLE CONNECTOR		
CN501			E40-4728-05	FLAT CABLE CONNECTOR		
CN502			E40-3260-05	PIN ASSY		
J1			E11-0399-05	MINIATURE PHONE JACK(7P)		
J2			E70-0057-05	LOCK TERMINAL BOARD		
J601			E63-1038-05	PIN JACK		
W301,302			E31-0001-00	JUMPER WIRE		
-			J19-6154-03	HOLDER		
E1 -3			J11-0809-05	WIRE CLAMPER		
E8 -11			J11-0809-05	WIRE CLAMPER		
L201			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L601-604			L92-0089-05	CHIP FERRITE		
L601-604			L92-0089-05	CHIP FERRITE	V2	5 9 68 9
X21			L77-2190-05	CRYSTAL RESONATOR(16.3944MHZ)		
X21			L77-2190-05	CRYSTAL RESONATOR(16.3944MHZ)	V1	
X21		*	L77-2338-05	CRYSTAL RESONATOR(33.8688MHZ)		
X21		*	L77-2338-05	CRYSTAL RESONATOR(33.8688MHZ)	V2	5 9 6 5
X501			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		
X501			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	HTE	
X601			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)		
X602			L78-0725-05	RESONATOR (8.38MHZ)		
R1 ,2			RK73GB1J203J	CHIP R 20K J 1/16W		
R3 -6			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R7			RK73GB1J103J	CHIP R 10K J 1/16W		
R9 ,10			RK73GB1J203J	CHIP R 20K J 1/16W		
R12			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R13			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R14 ,15			RK73GB1J102J	CHIP R 1.0K J 1/16W		

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Q: Russia

H: Korea

M: Other Areas

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13

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R16			RK73GB1J821J	CHIP R	820 J 1/16W	
R18			RK73EB2B112J	CHIP R	1.1K J 1/8W	
R19			RK73GB1J104J	CHIP R	100K J 1/16W	
R20			RK73GB1J153J	CHIP R	15K J 1/16W	
R21			RK73GB1J103J	CHIP R	10K J 1/16W	
R22			RK73GB1J332J	CHIP R	3.3K J 1/16W	
R23			RK73GB1J472J	CHIP R	4.7K J 1/16W	
R26			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R28, 29			RK73GB1J203J	CHIP R	20K J 1/16W	
R30, 31			RK73GB1J511J	CHIP R	510 J 1/16W	
R38, 39			RK73GB1J473J	CHIP R	47K J 1/16W	
R40, 41			RD14NB2E1R5J	RD	1.5 J 1/4W	
R42			RK73EB2B682J	CHIP R	6.8K J 1/8W	
R43			RS14KB3A331J	FL-PROOF RS	330 J 1W	
R43			RS14KB3A331J	FL-PROOF RS	330 J 1W	MIX 9 5
R43			RS14KB3A331J	FL-PROOF RS	330 J 1W	M111M2 8 6
R43			RS14KB3A391J	FL-PROOF RS	390 J 1W	HTE 5 5
R43			RS14KB3A391J	FL-PROOF RS	390 J 1W	KPX1 8
R44			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R45, 46			RS14KB3A331J	FL-PROOF RS	330 J 1W	
R50 -52			RK73GB1J473J	CHIP R	47K J 1/16W	
R53			RK73GB1J222J	CHIP R	2.2K J 1/16W	
R54			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R63			RK73GB1J224J	CHIP R	220K J 1/16W	
R66			RK73GB1J560J	CHIP R	56 J 1/16W	
R102			RD14NB2E4R7J	RD	4.7 J 1/4W	
R107			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R110			RD14NB2E1R0J	RD	1 J 1/4W	
R201			RK73GB1J473J	CHIP R	47K J 1/16W	
R202-205			RK73GB1J153J	CHIP R	15K J 1/16W	
R206			RK73GB1J473J	CHIP R	47K J 1/16W	
R207			RK73GB1J910J	CHIP R	91 J 1/16W	
R210			RK73GB1J104J	CHIP R	100K J 1/16W	
R210			RK73GB1J104J	CHIP R	100K J 1/16W	V2 5 9
R211, 212			RK73GB1J334J	CHIP R	330K J 1/16W	
R214			RK73GB1J101J	CHIP R	100 J 1/16W	
R215			RK73GB1J153J	CHIP R	15K J 1/16W	
R216			RK73GB1J393J	CHIP R	39K J 1/16W	
R217			RK73GB1J101J	CHIP R	100 J 1/16W	
R218			RK73GB1J683J	CHIP R	68K J 1/16W	
R219			RK73GB1J473J	CHIP R	47K J 1/16W	
R220			RK73GB1J104J	CHIP R	100K J 1/16W	
R221			RK73GB1J100J	CHIP R	10 J 1/16W	
R222			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R223, 224			RK73GB1J392J	CHIP R	3.9K J 1/16W	
R225			RK73GB1J272J	CHIP R	2.7K J 1/16W	
R225			RK73GB1J272J	CHIP R	2.7K J 1/16W	V2 5 9
R226			RK73GB1J333J	CHIP R	33K J 1/16W	
R226			RK73GB1J333J	CHIP R	33K J 1/16W	V2 5 9
R227			RK73GB1J473J	CHIP R	47K J 1/16W	
R232			RK73GB1J104J	CHIP R	100K J 1/16W	
R233			RK73GB1J563J	CHIP R	56K J 1/16W	
R234			RK73GB1J333J	CHIP R	33K J 1/16W	
R235			RK73GB1J105J	CHIP R	1.0M J 1/16W	

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14

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R238			RK73GB1J1R0J	CHIP R	1 J 1/16W	
R240			RK73GB1J100J	CHIP R	10 J 1/16W	
R241			RK73GB1J272J	CHIP R	2.7K J 1/16W	
R242			RK73GB1J121J	CHIP R	120 J 1/16W	
R242			RK73GB1J121J	CHIP R	120 J 1/16W	V1 68 9
R242			RK73GB1J471J	CHIP R	470 J 1/16W	
R242			RK73GB1J471J	CHIP R	470 J 1/16W	V2 5 9
R243			RK73GB1J105J	CHIP R	1.0M J 1/16W	
R247			RK73GB1J220J	CHIP R	22 J 1/16W	
R248			RK73GB1J103J	CHIP R	10K J 1/16W	
R250			RK73GB1J393J	CHIP R	39K J 1/16W	
R251			RK73GB1J183J	CHIP R	18K J 1/16W	
R252			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R254			RK73GB1J184J	CHIP R	180K J 1/16W	
R255			RK73GB1J682J	CHIP R	6.8K J 1/16W	
R256			RK73GB1J274J	CHIP R	270K J 1/16W	
R257			RK73GB1J103J	CHIP R	10K J 1/16W	
R258			RK73GB1J104J	CHIP R	100K J 1/16W	
R259			RK73GB1J563J	CHIP R	56K J 1/16W	
R260			RK73GB1J154J	CHIP R	150K J 1/16W	
R261			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R262			RK73GB1J101J	CHIP R	100 J 1/16W	
R263			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R264-266			RK73GB1J101J	CHIP R	100 J 1/16W	
R269			RK73GB1J512J	CHIP R	5.1K J 1/16W	
R270			RK73GB1J392J	CHIP R	3.9K J 1/16W	
R271, 272			RK73GB1J222J	CHIP R	2.2K J 1/16W	
R273, 274			RK73GB1J104J	CHIP R	100K J 1/16W	
R275, 276			RK73GB1J222J	CHIP R	2.2K J 1/16W	
R281, 282			RK73GB1J222J	CHIP R	2.2K J 1/16W	
R285, 286			RK73GB1J103J	CHIP R	10K J 1/16W	
R290			RK73GB1J152J	CHIP R	1.5K J 1/16W	
R291			RS14KB3A4R7J	FL-PROOF RS	4.7 J 1W	
R293			RK73GB1J101J	CHIP R	100 J 1/16W	
R293			RK73GB1J101J	CHIP R	100 J 1/16W	V2 5 9
R294, 295			RK73GB1J472J	CHIP R	4.7K J 1/16W	
R296			RK73GB1J104J	CHIP R	100K J 1/16W	
R297			RK73GB1J101J	CHIP R	100 J 1/16W	
R299			RS14KB3D2R2J	FL-PROOF RS	2.2 J 2W	
R515, 516			RK73GB1J331J	CHIP R	330 J 1/16W	
R519			RK73GB1J100J	CHIP R	10 J 1/16W	
R521			RK73GB1J2R2J	CHIP R	2.2 J 1/16W	
R522-526			RK73GB1J472J	CHIP R	4.7K J 1/16W	
R527, 528			RK73GB1J332J	CHIP R	3.3K J 1/16W	
R529, 530			RK73GB1J101J	CHIP R	100 J 1/16W	
R531			RK73GB1J273J	CHIP R	27K J 1/16W	
R532-536			RK73GB1J223J	CHIP R	22K J 1/16W	
R538			RK73GB1J112J	CHIP R	1.1K J 1/16W	
R539			RK73GB1J122J	CHIP R	1.2K J 1/16W	
R540			RK73GB1J112J	CHIP R	1.1K J 1/16W	
R541, 542			RK73GB1J222J	CHIP R	2.2K J 1/16W	
R543			RK73GB1J332J	CHIP R	3.3K J 1/16W	
R544			RK73GB1J622J	CHIP R	6.2K J 1/16W	
R545			RK73GB1J133J	CHIP R	13K J 1/16W	
R547			RK73GB1J112J	CHIP R	1.1K J 1/16W	

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15

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R548			RK73GB1J122J	CHIP R 1.2K J 1/16W		
R549			RK73GB1J112J	CHIP R 1.1K J 1/16W		
R550,551			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R552			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R553			RK73GB1J622J	CHIP R 6.2K J 1/16W		
R554,555			RK73GB1J103J	CHIP R 10K J 1/16W		
R556			RK73GB1J473J	CHIP R 47K J 1/16W		6
R556			RK73GB1J473J	CHIP R 47K J 1/16W	HTE	5
R557,558			RK73GB1J101J	CHIP R 100 J 1/16W		6
R557,558			RK73GB1J101J	CHIP R 100 J 1/16W	HTE	5
R559			RK73GB1J1R0J	CHIP R 1 J 1/16W		6
R559			RK73GB1J1R0J	CHIP R 1 J 1/16W	HTE	5
R601,602			RK73GB1J912J	CHIP R 9.1K J 1/16W		
R603,604			RK73GB1J224J	CHIP R 220K J 1/16W		
R605			RD14BB2C102J	RD 1.0K J 1/6W		5
R605			RD14BB2C102J	RD 1.0K J 1/6W	V2	9
R606			RK73GB1J102J	CHIP R 1.0K J 1/16W		5
R606			RK73GB1J102J	CHIP R 1.0K J 1/16W	V2	9
R609,610			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R611,612			RK73GB1J103J	CHIP R 10K J 1/16W		
R613,614			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R615			RK73GB1J100J	CHIP R 10 J 1/16W		
R616			RK73GB1J391J	CHIP R 390 J 1/16W		
R617,618			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R629			RS14KB3AR22J	FL-PROOF RS 0.22 J 1W		5
R629			RS14KB3AR22J	FL-PROOF RS 0.22 J 1W	V2	9
R630			RK73GB1J473J	CHIP R 47K J 1/16W		68
R630			RK73GB1J473J	CHIP R 47K J 1/16W	V1	9
R631			RK73GB1J473J	CHIP R 47K J 1/16W		5
R631			RK73GB1J473J	CHIP R 47K J 1/16W	V2	9
R701			RK73GB1J104J	CHIP R 100K J 1/16W		
R702			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R703			RK73GB1J103J	CHIP R 10K J 1/16W		
R704			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R705			RK73GB1J103J	CHIP R 10K J 1/16W		
R706			RK73GB1J101J	CHIP R 100 J 1/16W		
R708			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		6
R710			RK73GB1J103J	CHIP R 10K J 1/16W		5
R710			RK73GB1J103J	CHIP R 10K J 1/16W	HTE	9
R710			RK73GB1J223J	CHIP R 22K J 1/16W	MIX	5
R710			RK73GB1J223J	CHIP R 22K J 1/16W	M111M2	8
R710			RK73GB1J393J	CHIP R 39K J 1/16W	X1	8
R710			RK73GB1J682J	CHIP R 6.8K J 1/16W	KP	8
R711			RK73GB1J103J	CHIP R 10K J 1/16W		
R712			RD14BB2C101J	RD 100 J 1/6W		6
R712			RD14BB2C101J	RD 100 J 1/6W	HTE	5
R713			RK73GB1J101J	CHIP R 100 J 1/16W		
R717			RK73GB1J101J	CHIP R 100 J 1/16W		
R718,719			RK73GB1J512J	CHIP R 5.1K J 1/16W		
R720			RK73GB1J473J	CHIP R 47K J 1/16W		
R721			RK73GB1J103J	CHIP R 10K J 1/16W		
R722			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R724			RK73FB2A475J	CHIP R 4.7M J 1/10W		

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16

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R725			RK73GB1J104J	CHIP R 100K J 1/16W		
R726			RK73GB1J101J	CHIP R 100 J 1/16W		
R726			RK73GB1J101J	CHIP R 100 J 1/16W	V2	5
R727			RK73GB1J101J	CHIP R 100 J 1/16W		9
R728,729			RK73GB1J331J	CHIP R 330 J 1/16W		
R730,731			RK73GB1J101J	CHIP R 100 J 1/16W		
R732			RK73GB1J473J	CHIP R 47K J 1/16W		
R733			RK73GB1J103J	CHIP R 10K J 1/16W		
R734			RK73GB1J473J	CHIP R 47K J 1/16W		
R735			RK73GB1J103J	CHIP R 10K J 1/16W		
R736,737			RK73GB1J101J	CHIP R 100 J 1/16W		
R738			RK73GB1J473J	CHIP R 47K J 1/16W		
R739			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R740-742			RK73GB1J101J	CHIP R 100 J 1/16W		
R744			RK73GB1J101J	CHIP R 100 J 1/16W		
R745,746			RK73GB1J473J	CHIP R 47K J 1/16W		
R747,748			RK73GB1J101J	CHIP R 100 J 1/16W		
R749			RK73GB1J473J	CHIP R 47K J 1/16W		
R751			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R752			RK73GB1J104J	CHIP R 100K J 1/16W		
R755			RK73GB1J473J	CHIP R 47K J 1/16W		
R760-764			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R765			RK73GB1J273J	CHIP R 27K J 1/16W		
R766			RK73GB1J103J	CHIP R 10K J 1/16W		
R768-776			RK73GB1J101J	CHIP R 100 J 1/16W		
R777			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R778			RK73GB1J103J	CHIP R 10K J 1/16W		
R779			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R780-784			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R789			RK73GB1J101J	CHIP R 100 J 1/16W		
R790,791			RK73GB1J473J	CHIP R 47K J 1/16W		
R795			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R799			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R800			RK73GB1J101J	CHIP R 100 J 1/16W		
R800			RK73GB1J101J	CHIP R 100 J 1/16W	HTE	6
R803-805			RK73GB1J104J	CHIP R 100K J 1/16W		5
R808			RK73GB1J103J	CHIP R 10K J 1/16W		
R809,810			RK73GB1J104J	CHIP R 100K J 1/16W		
R811			RK73GB1J473J	CHIP R 47K J 1/16W		
W34			R92-0679-05	CHIP R 0 OHM		
W200			R92-0670-05	CHIP R 0 OHM		
W201-206			R92-1252-05	CHIP R 0 OHM		
W208			R92-1252-05	CHIP R 0 OHM		
W210			R92-0679-05	CHIP R 0 OHM		
W213			R92-0679-05	CHIP R 0 OHM		
W215			R92-0679-05	CHIP R 0 OHM		
W216,217			R92-1252-05	CHIP R 0 OHM		
W218			R92-0679-05	CHIP R 0 OHM		
W219			R92-1252-05	CHIP R 0 OHM		
W220			R92-0679-05	CHIP R 0 OHM		
W221			R92-1252-05	CHIP R 0 OHM		
W222			R92-0679-05	CHIP R 0 OHM		
W307			R92-1252-05	CHIP R 0 OHM		
W334			R92-1252-05	CHIP R 0 OHM		
W373			R92-0679-05	CHIP R 0 OHM		

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PARTS LIST

RXD-M33/M33MD

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17

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W392			R92-0679-05	CHIP R 0 OHM		
W393			R92-0670-05	CHIP R 0 OHM		
W394,395			R92-1252-05	CHIP R 0 OHM		
W397			R92-1252-05	CHIP R 0 OHM		
W527-531			R92-0670-05	CHIP R 0 OHM		
W534			R92-0679-05	CHIP R 0 OHM		
K1			S76-0098-05	MAGNETIC RELAY		
S501-517			S70-0031-05	TACT SWITCH		
S518			T99-0634-05	ROTARY ENCODER		
D1			HZS3.9N(B)	ZENER DIODE		
D1			MTZJ3.9(B)	ZENER DIODE		
D1			RD3.9ES(B)	ZENER DIODE		
D2			MTZJ8.2(B)	ZENER DIODE		
D2			RD8.2ES(B)	ZENER DIODE		
D3 ,4			HSS104A	DIODE		
D3 ,4			1SS133	DIODE		
D5			HZS5.1N(B)	ZENER DIODE		
D5			MTZJ5.1(B)	ZENER DIODE		
D5			RD5.1ES(B)	ZENER DIODE		
D8			HSS104A	DIODE		
D8			1SS133	DIODE		
D101			D3SBA20F03	DIODE		
D102-104			S5688B	DIODE		
D105			HZS20N(B)	ZENER DIODE		
D105			MTZJ20(B)	ZENER DIODE		
D105			RD20ES(B)	ZENER DIODE		
D106			HZS15N(B)	ZENER DIODE		
D106			MTZJ15(B)	ZENER DIODE		
D106			RD15ES(B)	ZENER DIODE		
D107			DAP202U	DIODE		
D107			MA142WA	DIODE		
D107			1SS300	DIODE		
D108			MTZJ8.2(B)	ZENER DIODE		
D108			RD8.2ES(B)	ZENER DIODE		
D109			HSS104A	DIODE		
D109			1SS133	DIODE		
D110			HZS10N(B)	ZENER DIODE		
D110			MTZJ10(B)	ZENER DIODE		
D110			RD10ES(B)	ZENER DIODE		
D111			HSS104A	DIODE		
D111			1SS133	DIODE		
D115			HSS104A	DIODE		
D115			1SS133	DIODE		
D119			D2SBA20F03	DIODE		
D120			D3SBA20F03	DIODE		
D201			MA111	DIODE		
D501			HZS6.2N(B)	ZENER DIODE		
D501			MTZJ6.2(B)	ZENER DIODE		
D501			RD6.2ES(B)	ZENER DIODE		
D601			1SS402	DIODE		
D603			MA111	DIODE		
D604			HZS5.6N(B)	ZENER DIODE		
D604			MTZJ5.6(B)	ZENER DIODE		

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18

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D604			RD5.6ES(B)	ZENER DIODE		
ED501			HNA-16MM30T	FLUORESCENT INDICATOR TUBE		
IC1		*	LM4766T	ANALOGUE IC		
IC21		*	AN8806SBM	ANALOGUE IC		
IC22		*	MN662748RPMFA	MOS-IC		
IC23			AN4801SB-E1	ANALOGUE IC		
IC24			NJM4565M	ANALOGUE IC		
IC25			TA7805SB	ANALOGUE IC		
IC26			TA8409S	MOS-IC		
IC27			HD74LV1G08A	MOS-IC		5
IC27			HD74LV1G08A	MOS-IC	V2	9
IC101			TA7809SB	ANALOGUE IC		
IC102			KIA7805API	ANALOGUE IC		
IC501		*	M66005-001FP	MOS-IC		6
IC502			BU1923F	ANALOGUE IC		
IC601			BU1923F	ANALOGUE IC	HTE	5
IC701		*	M61510FP	ANALOGUE IC		
IC701		*	MN101C49HLC	MI-COM IC		68
IC701		*	MN101C49HLC	MI-COM IC	V1	9
IC701		*	MN101C49KLB	MI-COM IC		5
IC702		*	MN101C49KLB	MI-COM IC	V2	9
Q1			S-80840ANY	ANALOGUE IC		
Q1			2SA1576A(R,S)	TRANSISTOR		
Q2			2SB1218A(Q,R)	TRANSISTOR		
Q2 ,3			2SC2878(B)	TRANSISTOR		
Q4 ,5			2SA1576A(R,S)	TRANSISTOR		
Q4 ,5			2SB1218A(Q,R)	TRANSISTOR		
Q6 ,7			2SC4081(R,S)	TRANSISTOR		
Q6 ,7			2SD1819A(Q,R)	TRANSISTOR		
Q10			DTC113ZSA	DIGITAL TRANSISTOR		
Q10			UN4219	DIGITAL TRANSISTOR		
Q101		*	2SA1534A(R,S)	TRANSISTOR		
Q102		*	2SD2641	TRANSISTOR		
Q103		*	2SC4081(R,S)	TRANSISTOR		
Q103		*	2SD1819A(Q,R)	TRANSISTOR		
Q104			DTC124EUA	DIGITAL TRANSISTOR		
Q104			UN5212	DIGITAL TRANSISTOR		
Q201			2SA1577(Q,R)	TRANSISTOR		
Q203			2SC4081(R,S)	TRANSISTOR		
Q203			2SC4081(R,S)	TRANSISTOR	V2	5
Q203			2SD1819A(Q,R)	TRANSISTOR		
Q203			2SD1819A(Q,R)	TRANSISTOR	V2	5
Q204			DTC124EUA	DIGITAL TRANSISTOR		
Q204			UN5212	DIGITAL TRANSISTOR		
Q205			2SA1286-T11	TRANSISTOR		
Q206			2SA1577(Q,R)	TRANSISTOR		
Q207			2SC4081(R,S)	TRANSISTOR		
Q207			2SD1819A(Q,R)	TRANSISTOR		
Q501,502			HN1C01F	DUAL TRANSISTOR		
Q503			2SC4081(R,S)	TRANSISTOR		
Q503			2SD1819A(Q,R)	TRANSISTOR		
Q601			2SC4081(R,S)	TRANSISTOR		
Q601			2SD1819A(Q,R)	TRANSISTOR		
Q602			2SD1664(Q,R)	TRANSISTOR		
Q602			2SD1963(R,S)	TRANSISTOR		
						568

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19

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q603 Q603			DTC113ZUA UN5219	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
A501 A601 A601		*	W02-2759-05 W02-1114-15 W02-1114-15	ELECTRIC CIRCUIT MODULE OSCILLATING MODULE OSCILLATING MODULE	V1	68 9
MD CONTROL (X33-1260-00)						
C1 C2 ,3 C5 C7 C8			CK73GB1C104K CE32AP0J101M CK73GB1C104K CK73GB0J474K CK73GF1E104Z	CHIP C CHIP EL CHIP C CHIP C CHIP C	0.10UF 100UF 0.10UF 0.47UF 0.10UF	K 6.3WV K K Z
C8 C9 C10 C11 C12			CK73GF1H104Z CK73GB1H472K CC73GCH1H101J CK73GB0J474K CK73GB1E153K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 4700PF 100PF 0.47UF 0.015UF	Z K J K K
C13 C13 C14 C18 C22 ,23			CK73GF1E104Z CK73GF1H104Z CC73GCH1H100D CK73GB1E103K CK73GF1E104Z	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 0.10UF 10PF 0.010UF 0.10UF	Z Z D K Z
C22 ,23 C30 C31 C32 C35			CK73GF1H104Z CE32AP1C100M CE32AP0J101M CK73GB1H222K C92-0232-05	CHIP C CHIP EL CHIP EL CHIP C ELECTRO	0.10UF 10UF 100UF 2200PF 10UF	Z 16WV 6.3WV K 16WV
C36 C36 C37 C38 C38			CK73GF1E104Z CK73GF1H104Z CK73GB1H222K CK73GF1E104Z CK73GF1H104Z	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 0.10UF 2200PF 0.10UF 0.10UF	Z Z K Z Z
C39 C40 C41 C42 ,43 C45			C92-0232-05 C91-1597-05 C93-0032-05 CK73GB1H471K CE32AP0J101M	ELECTRO CERAMIC CHIP C CHIP C CHIP EL	10UF 4.7UF 10UF 470PF 100UF	16WV Z 10WV K 6.3WV
C46 -48 C46 -48 C51 C52 C52			CK73GF1E104Z CK73GF1H104Z C92-0232-05 CK73GF1E104Z CK73GF1H104Z	CHIP C CHIP C ELECTRO CHIP C CHIP C	0.10UF 0.10UF 10UF 0.10UF 0.10UF	Z Z 16WV Z Z
C54 C55 C56 C57 C58			CK73GB1E223K CK73GB1H102K CK73GF1A105Z CK73GB1C104K CK73GB1E103K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.022UF 1000PF 1.0UF 0.10UF 0.010UF	K Z K K K
C59 C60 C62 C63 C64			CK73GB1E223K CE32AP1C100M CK73GB1C104K CK73GB1E103K CK73GB1E223K	CHIP C CHIP EL CHIP C CHIP C CHIP C	0.022UF 10UF 0.10UF 0.010UF 0.022UF	K 16WV K K K
C65 C66 C67			CK73GB1A224K CK73GF1A105Z CK73GB1H472K	CHIP C CHIP C CHIP C	0.22UF 1.0UF 4700PF	K Z K

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20

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C68 C69 C71 ,72 C71 ,72 C73 ,74			CK73GB1C683K CK73GB1E223K CK73GF1E104Z CK73GF1H104Z CK73GF1A105Z	CHIP C CHIP C CHIP C CHIP C CHIP C	0.068UF 0.022UF 0.10UF 0.10UF 1.0UF	K K Z Z Z
C75 C75 C76 C80 C81			CK73GF1E104Z CK73GF1H104Z CK73GB0J474K CE32AP0J101M CK73GF1E104Z	CHIP C CHIP C CHIP C CHIP EL CHIP C	0.10UF 0.10UF 0.47UF 100UF 0.10UF	Z Z K 6.3WV Z
C81 C82 -85 C86 -89			CK73GF1H104Z CK73GB1H152K CC73GCH1H391J	CHIP C CHIP C CHIP C	0.10UF 1500PF 390PF	Z K J
CN1 CN3			E40-8401-05 E40-8687-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		
L1 -4 L1 -4 L8 L8 X1			L79-1216-05 L92-0075-05 L79-1216-05 L92-0075-05 L77-2328-05	LINE FILTER CHIP FERRITE LINE FILTER CHIP FERRITE CRYSTAL OSCILLATOR(16.9344MHZ)		
X2			L78-0722-05	OSCILLATOR (10MHZ)		
R3 -6 R8 -10 R12 R14 R15			RK73GB1J221J RK73GB1J103J RK73GB1J3R3J RK73GB1J104J RK73GB1J684J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 10K 3.3 100K 680K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R16 R17 R18 R19 R20			RK73GB1J101J RK73GB1J102J RK73GB1J332J RK73GB1J102J RK73GB1J151J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 1.0K 3.3K 1.0K 150	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R21 ,22 R23 R24 -26 R30 R31			RK73GB1J103J RK73GB1J104J RK73GB1J101J R92-1969-05 R92-1970-05	CHIP R CHIP R CHIP R METAL GLAZE METAL GLAZE	10K 100K 100 200 360	J 1/16W J 1/16W J 1/16W F 1/16W F 1/16W
R35 R36 ,37 R39 ,40 R41 R42			RK73GB1J1R0J RK73GB1J101J RK73GB1J471J RK73GB1J221J RK73GB1J133J	CHIP R CHIP R CHIP R CHIP R CHIP R	1 100 470 220 13K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R43 R45 R46 R47 ,48 R49			RK73GB1J183J RK73GB1J332J RK73GB1J4R7J RK73GB1J473J RK73GB1J472J	CHIP R CHIP R CHIP R CHIP R CHIP R	18K 3.3K 4.7 47K 4.7K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R50 R51 R52 -55 R56 -58 R59 ,60			RK73GB1J101J RK73GB1J102J RK73GB1J474J RK73GB1J473J RK73GB1J103J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 1.0K 470K 47K 10K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R62 R64			RK73GB1J473J RK73GB1J473J	CHIP R CHIP R	47K 47K	J 1/16W J 1/16W

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RXD-M33/M33MD

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21

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R65 ,66			RK73GB1J101J	CHIP R 100 J 1/16W		
R67 -69			RK73GB1J473J	CHIP R 47K J 1/16W		
R70			RK73GB1J3R3J	CHIP R 3.3 J 1/16W		
R71			RK73GB1J563J	CHIP R 56K J 1/16W		
R72 ,73			RK73GB1J133J	CHIP R 13K J 1/16W		
R75 ,76			RK73GB1J104J	CHIP R 100K J 1/16W		
R77			RK73GB1J103J	CHIP R 10K J 1/16W		
R78			RK73GB1J101J	CHIP R 100 J 1/16W		
R79			RK73GB1J561J	CHIP R 560 J 1/16W		
R80			RK73GB1J101J	CHIP R 100 J 1/16W		
R82			RK73GB1J101J	CHIP R 100 J 1/16W		
R83 ,84			RK73GB1J103J	CHIP R 10K J 1/16W		
R85			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R86			RK73GB1J474J	CHIP R 470K J 1/16W		
R87			RK73GB1J335J	CHIP R 3.3M J 1/16W		
R88			RK73GB1J474J	CHIP R 470K J 1/16W		
R89			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R93			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R94			RK73GB1J681J	CHIP R 680 J 1/16W		
R95			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R96			RK73GB1J104J	CHIP R 100K J 1/16W		
R97			R92-1853-05	CHIP-RN 1 1/4W		
R98			R92-1854-05	RN 2.2 K 1/2W		
R99			RK73GB1J103J	CHIP R 10K J 1/16W		
R100			RK73GB1J473J	CHIP R 47K J 1/16W		
R101-103			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R112,113			RK73GB1J223J	CHIP R 22K J 1/16W		
R114,115			RK73GB1J104J	CHIP R 100K J 1/16W		
R116			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R117,118			RK73GB1J183J	CHIP R 18K J 1/16W		
R119,120			RK73GB1J104J	CHIP R 100K J 1/16W		
R121			RK73GB1J183J	CHIP R 18K J 1/16W		
R122,123			RK73GB1J104J	CHIP R 100K J 1/16W		
R124-126			RK73GB1J183J	CHIP R 18K J 1/16W		
R127,128			RK73GB1J104J	CHIP R 100K J 1/16W		
R129			RK73GB1J514J	CHIP R 510K J 1/16W		
W2 -6			R92-0679-05	CHIP R 0 OHM		
S1			S68-0133-05	PUSH SWITCH		
S2 ,3			S64-0052-05	LEVER SWITCH		
S4			S68-0132-05	PUSH SWITCH		
S5			S64-0052-05	LEVER SWITCH		
D1 ,2			FS1J6TP	DIODE		
D3 ,4			MA111	DIODE		
D5 ,6			S1B	DIODE		
IC1			CXD2662R	MOS-IC		
IC2			CXA2523AR	IC(RF SERVO)		
IC2			CXA2523AR*	IC		
IC3			HD643227N14FA	IC		
IC4			BA5984FP	IC(CD POWER DRIVER)		
IC5			LC32S4400T-10	IC		
IC6			RC1117ST	IC		
IC7			BR24C02F	IC(E2PROM)		
IC7			S-24C02BFJ-TB	IC(MEMORY IC)		
IC8			BD7910FV	MOS-IC		

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22

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IC10			AK4550VT	MOS-IC		
IC11			C6006AZ	IC		
Q1			UMW1N	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q3			2SB798-DL	TRANSISTOR		
Q4			DTA144EUA	DIGITAL TRANSISTOR		
Q5 ,6			DTC114YUA	DIGITAL TRANSISTOR		
Q7			DTA124EUA	DIGITAL TRANSISTOR		
Q8			DTC124EUA	DIGITAL TRANSISTOR		
Q9			2SA1576A(R,S)	TRANSISTOR		
Q10			DTC124EUA	DIGITAL TRANSISTOR		
Q11			DTA144EUA	DIGITAL TRANSISTOR		
CD MECHANISM (D40-1714-05)						
1	1B	*	A10-3554-08	LOADING CHS	LCHSM0127AWZZ	
5	2B		D10-3606-08	ROD		
6	1A	*	D13-2557-08	RACK GEAR	NGERR0005AWZZ	
7	1A	*	D13-2558-08	TRAY GEAR	NGERH0146AWZZ	
9	2B		D13-1720-08	DRIVING GEAR		
10	1B	*	D15-0444-08	DRIVE PULLEY	NPLYR0010AWZZ	
11	1B	*	D16-0770-08	DRIVE BELT	NBLTK0040AWZZ	
13	2B		E35-2322-08	CONE WIRE	QCNWN1379AWZZ	
15	2B,3B	*	J02-1511-05	INSULATOR		
16	2B	*	J11-0868-08	CLAMPER	LHLDM1015AWZZ	
18	3A	*	J19-6221-08	MEC HOLDER	LHLDZ1341AWZZ	
20	2A	*	J99-0831-08	DISC HOLDER	GCOVA1386AWSA	
25	2B		S74-0080-08	LEAF SWITCH	SWICHL1749A	
26	3B		S74-0038-08	LEAF SWITCH		
28	3B		E40-3264-05	CONNECTOR		
30	1B		T99-0609-08	MAGNET	PMAGF0001AWZZ	
DM	3B		A11-1082-18	MOTOR CHS ASSY	DISC	
FM	3B		T42-0817-08	MOTOR ASSY	FEED	
LM	2B	*	T42-1113-08	MOTOR ASSY	TRAY	
PU	2A		T25-0061-08	PICKUP ASSY	KSS-213C	
MD MECHANISM (D40-1715-05)						
201	1D		A10-3531-08	CHASSIS	TU	
202	2D		J19-6125-08	BRACKET ASSY		
203	2D		G02-1716-08	FLAT SPRING	THRUST	
204	3C		D13-2510-08	RACK	GEAR	
205	2D		D10-3958-08	LEVER	LIMIT	
206	2C		A11-1189-08	SUB CHASSIS ASSY		
207	2C		D10-3959-08	ARM ASSY	MAIN	
208	2C		D10-3961-08	LEVER ASSY	HEAD	
209	1C		D10-3963-08	SLIDER	MAIN	
210	2C		D13-2511-08	GEAR	FINAL	
211	3C		J19-6127-08	HOLD ASSY		
212	2D		A15-0106-08	FRAME		
213	1C		F11-0503-08	SHIELD CASE		
215	2D		D10-3982-08	ROD	SUB	
216	2D		D10-3957-08	ROD		
218	1D		A11-1187-08	SUB CHASSIS ASSY,TU		
219	1D		D13-2504-08	GEAR	LOAD A	
220	2D		D13-2505-08	GEAR	LOAD B	
221	2D		D13-2516-08	GEAR	LOAD C	
224	2D		D13-2509-08	GEAR	INTERMEDIATE	

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RXD-M33/M33MD

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
RXD-M33MD-S/L/N	5	-	-	-	T	-	-	-	-
RXD-M33MD-S		X	-	-	-	E	-	-	I
RXD-M33MD-L		-	-	-	-	-	-	H	-
RXD-M33-S/L/N	6	-	-	-	T1	E1	-	-	-
RXD-M33-S/L		-	-	-	-	-	-	H1	-
RXD-M33E-S/L/N		-	-	-	-	E2	-	-	-
RXD-M33-S/L	8	X1	P	-	-	-	-	-	I1
RXD-M33-N		-	-	-	-	-	-	-	-
RXD-M33-L/N(M2)		-	-	-	-	-	-	-	-
RXD-M33-L	9	-	-	-	-	-	-	-	-
RXD-M33MD-N		-	-	-	-	-	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
RXD-M33MD-S/L/N	5	-	-	-	-	-	-	M	-
RXD-M33MD-S		-	-	-	-	-	-	-	-
RXD-M33MD-L		-	-	-	-	-	-	-	-
RXD-M33-S/L/N	6	-	-	-	-	-	-	-	-
RXD-M33-S/L		-	-	-	-	-	-	-	-
RXD-M33E-S/L/N		-	-	-	-	-	-	-	-
RXD-M33-S/L	8	-	-	-	-	-	K	M1	-
RXD-M33-N		-	-	-	-	-	-	M1	-
RXD-M33-L/N(M2)		-	-	-	-	-	-	M2	-
RXD-M33-L	9	-	-	-	-	V1	-	-	-
RXD-M33MD-N		-	-	-	-	V2	-	-	-

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23

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225	3C		D10-3964-08	SLIDER	LOAD	
226	3C		D10-3965-08	ARM	LOAD	
227	2D		J02-1492-08	INSULATOR		
228	1D		G01-4230-08	TORSION SPRING SPM		
229	2D		G01-4231-08	TENSION SPRING		
230	2C		G01-4235-08	TENSION SPRING		
231	2C		G01-4233-08	TORSION SPRING		
232	3C		G01-4234-08	TENSION SPRING		
233	3D		N39-1745-46	SCREW	M1.7X4.5	
234	3C		N09-3104-05	SCREW	M1.7X2	
235	3C,2D		N09-3279-05	SCREW	M1.7X3	
236	2C,2D		N09-5113-08	SCREW	1.7X7	
237	2D		N09-5229-08	SCREW	1.4X1.8	
238	1D		N09-5230-08	SCREW	1.4X2.2	
239	1D,2D		N09-5231-08	SCREW	1.7X4	
240	1C		N86-2004-46	SCREW	2X4	
241	2C,2D		N19-0366-04	FLAT WASHER	2.1X4X0.5	
242	2D		N19-1511-08	FLAT WASHER	2.5X0.9X0.25	
243	2C		N19-1171-04	FLAT WASHER	1.6X3.5X0.25	
244	2D		N09-5285-08	SCREW	M1.7X4.5	
250	3D,2G	*	E35-2824-08	FLAT CABLE		
251	3D		E35-2348-18	FLAT CABLE	PU,21P	
255	2D		D13-2506-08	GEAR ASSY		
256	3D		G16-1236-08	SHEET		
257	3D		G11-2825-08	TAPE		
DMMD	1D		T42-0983-05	MOTOR ASSY	FEED	
FMMD	2C		T42-0985-08	MOTOR ASSY	LOAD	
LMMD	1D		T42-0984-08	MOTOR ASSY		
PUMD	3C		T25-0085-05	PICKUP		
RHMD	3C		T30-0027-05	RECORD HEAD		

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RXD-M33/M33MD

SPECIFICATIONS

Main unit

[Amplifier section]

(For U.S.A. and Canada)

Rated output power during STEREO operation (FTC)

21 watts per channel minimum RMS, both channels driven, at 6 Ω from 90 Hz to 15 kHz with no more than 10 % total harmonic distortion.

(For U.K. and Europe)

Effective output power during STEREO operation

(1 kHz, 10% T.H.D., at 6 Ω)..... 25 W + 25 W

Rated output power during STEREO operation

(1 kHz, 0.7% T.H.D., at 6 Ω)..... 18 W + 18 W

(For Singapore)

Rated output power during STEREO operation

(1 kHz, 10% T.H.D., at 6 Ω)..... 20 W + 20 W

(For other countries)

Rated output power during STEREO operation

(1 kHz, 10% T.H.D., at 6 Ω)..... 25 W + 25 W

Frequency response

AUX 40 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section

Tuning frequency range.....87.5 MHz ~ 108 MHz

MW (AM) tuner section

(For U.S.A. and Canada)

Tuning frequency range530 kHz ~ 1,700 kHz

(For U.K. and Europe)

Tuning frequency range531 kHz ~ 1,602 kHz

(For Australia)

Tuning frequency range531 kHz ~ 1,602 kHz

(For other countries)

Tuning frequency range

9 kHz step.....531 kHz ~ 1,602 kHz

10 kHz step.....530 kHz ~ 1,610 kHz



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
• Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

[CD player section]

LaserSemiconductor laser

Over sampling8 fs (352.8 Hz)

Laser wave length760 to 800 nm

Laser power class.....Class 3A (IEC)

D/A Conversion1 Bit

[Cassette deck section]

Track4-track, 2-channel stereo

Recording systemAC bias system

(Frequency: 105 kHz)

Heads

Playback/ recording head1

Erasing head1

Motor1

Wow and flutter0.2 % (W.R.M.S.)

Fast winding timeApprox. 110 seconds
(C-60 tape)

[General]

Power consumption

(For U.S.A., Canada and Singapore) 70 W

(For other countries)..... 80 W

Dimensions..... W : 180 mm (7-1/16")

H : 255 mm (8-7/16")

D : 317 mm (12-7/16")

Weight (net)..... 5.1 kg (11.2 lb)

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Av. Moema, 170-17°, Andar-Cobertura "B", Ed. Maximum Service Center, 04077-020 Moema, São Paulo-SP-Brasil

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BELGUM N.V.

Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001 499 074)

16 Giffnock Avenue, North Ryde, N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkok, Huaykwang, Bangkok, 10320 Thailand